

FIG. 1

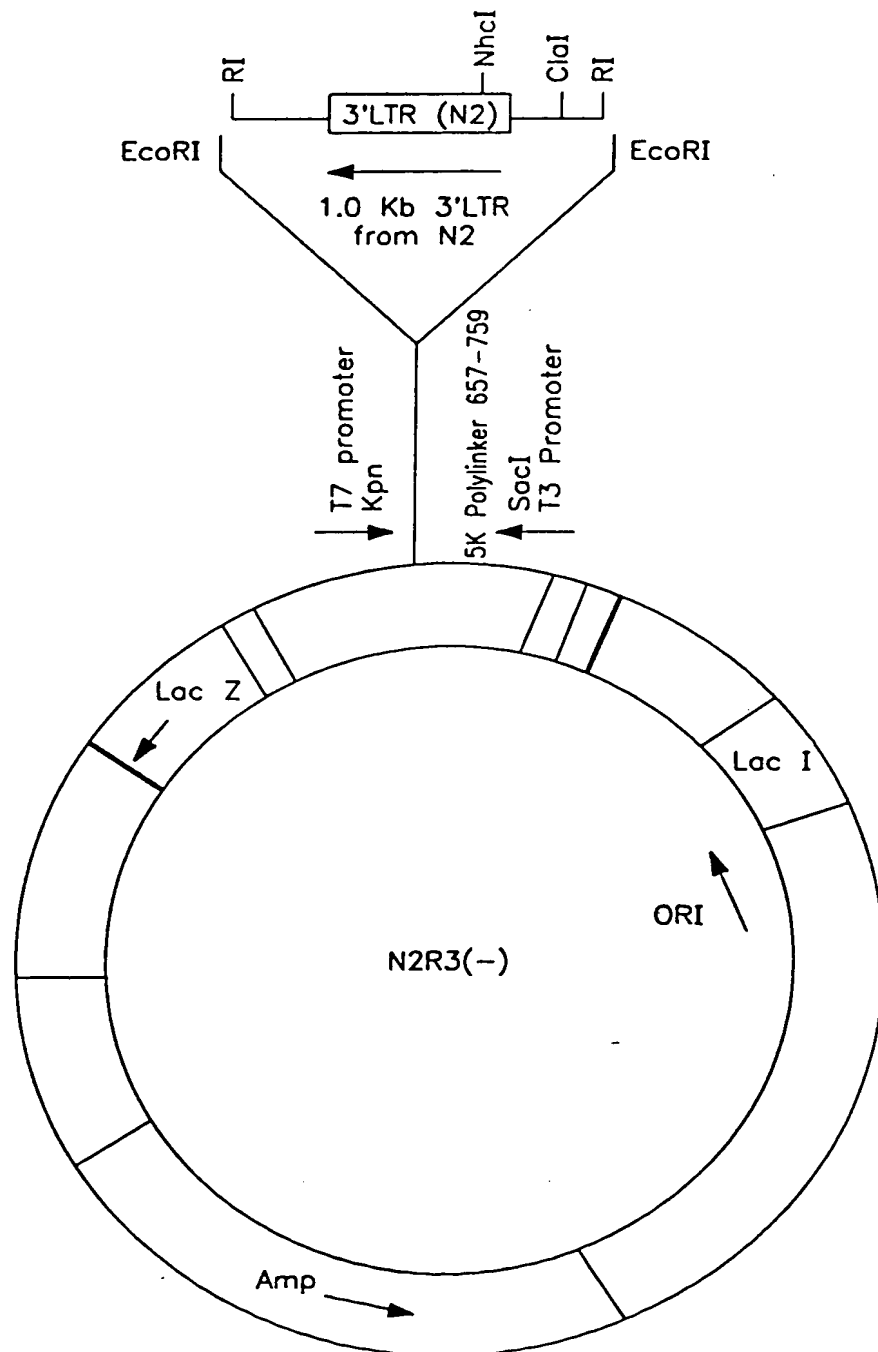


FIG. 2

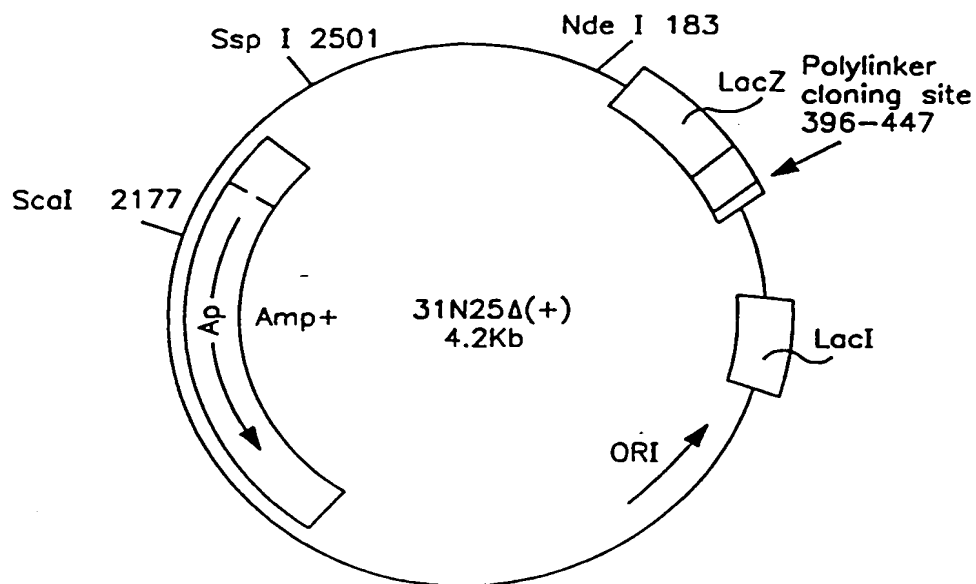
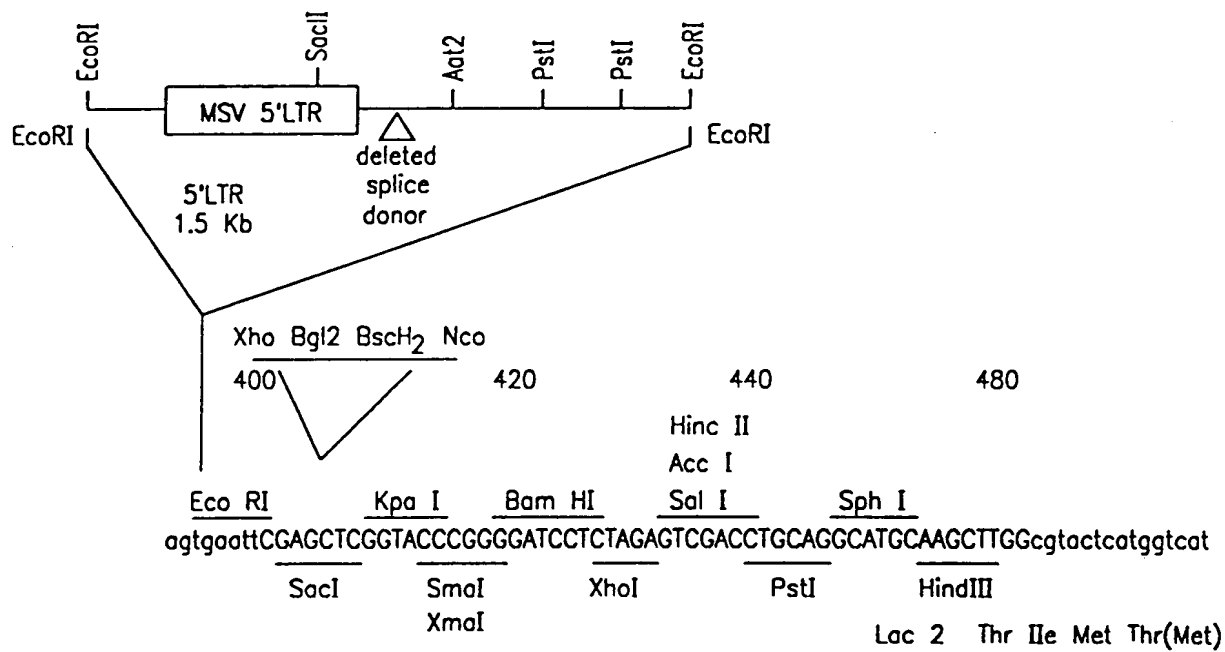


FIG. 3

17

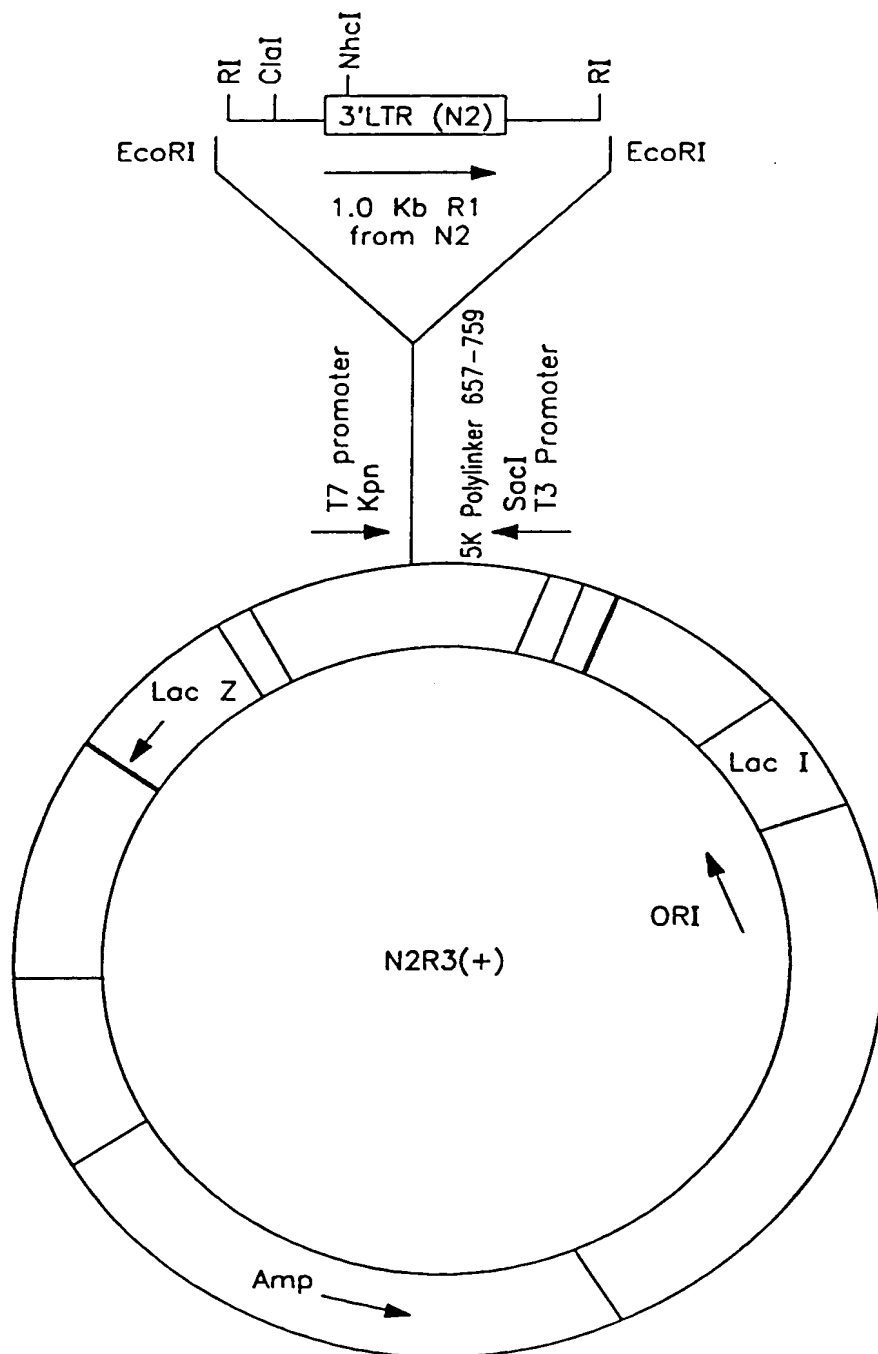


FIG. 4

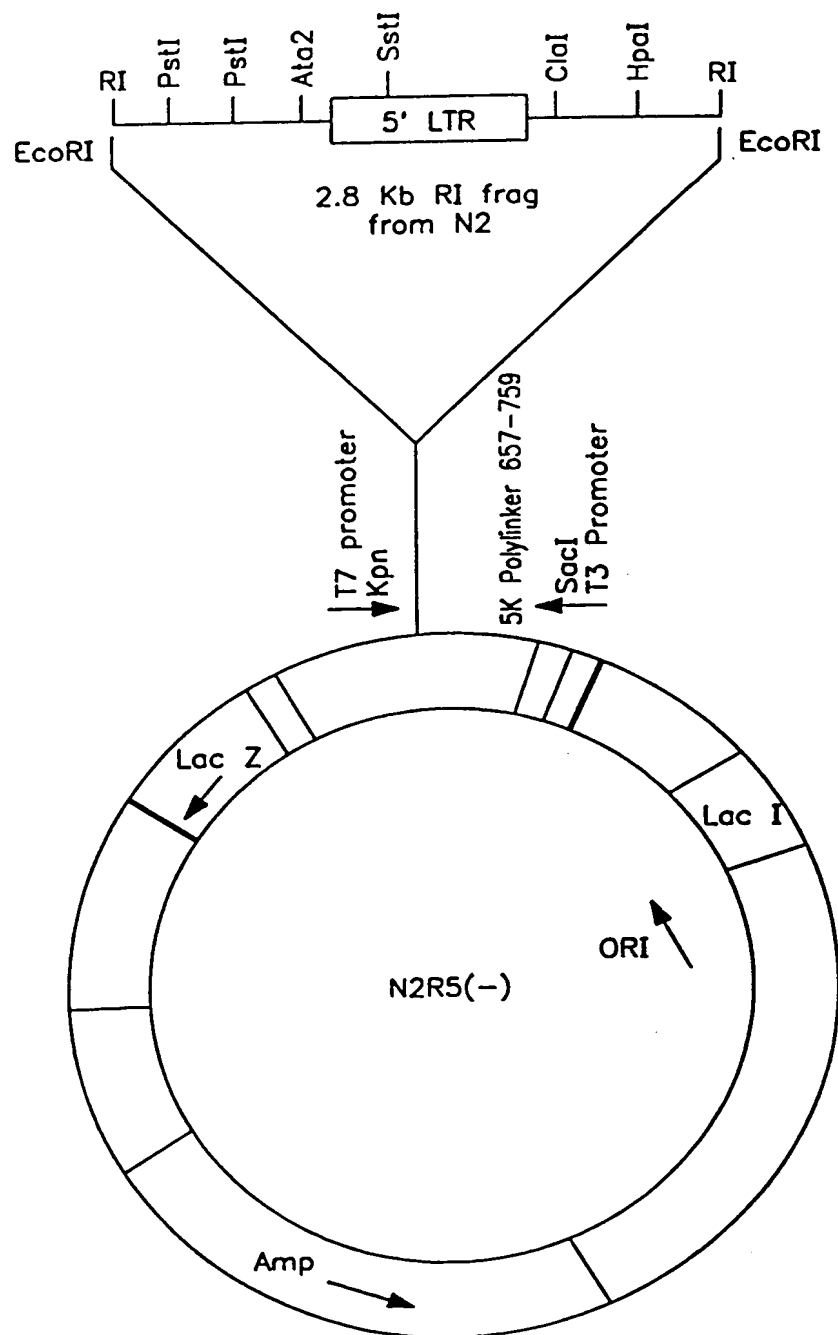


FIG. 5

4145

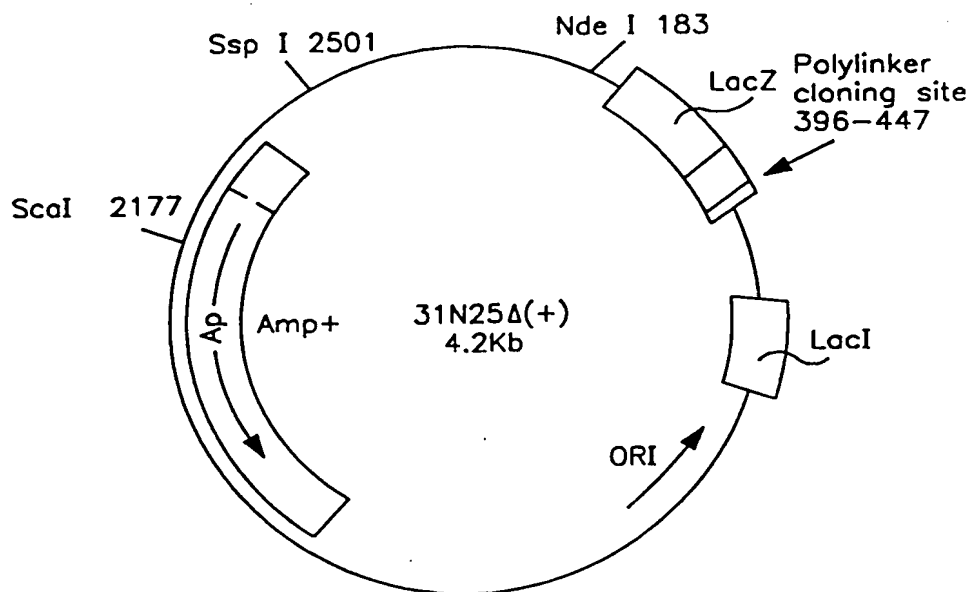
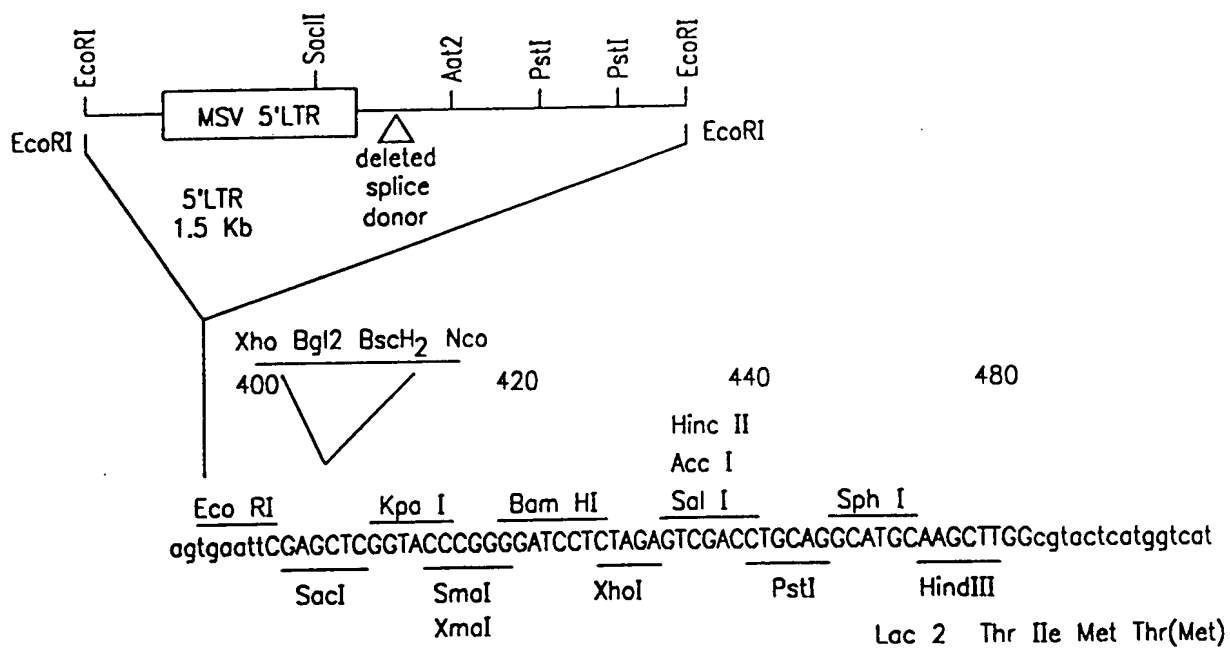


FIG. 6

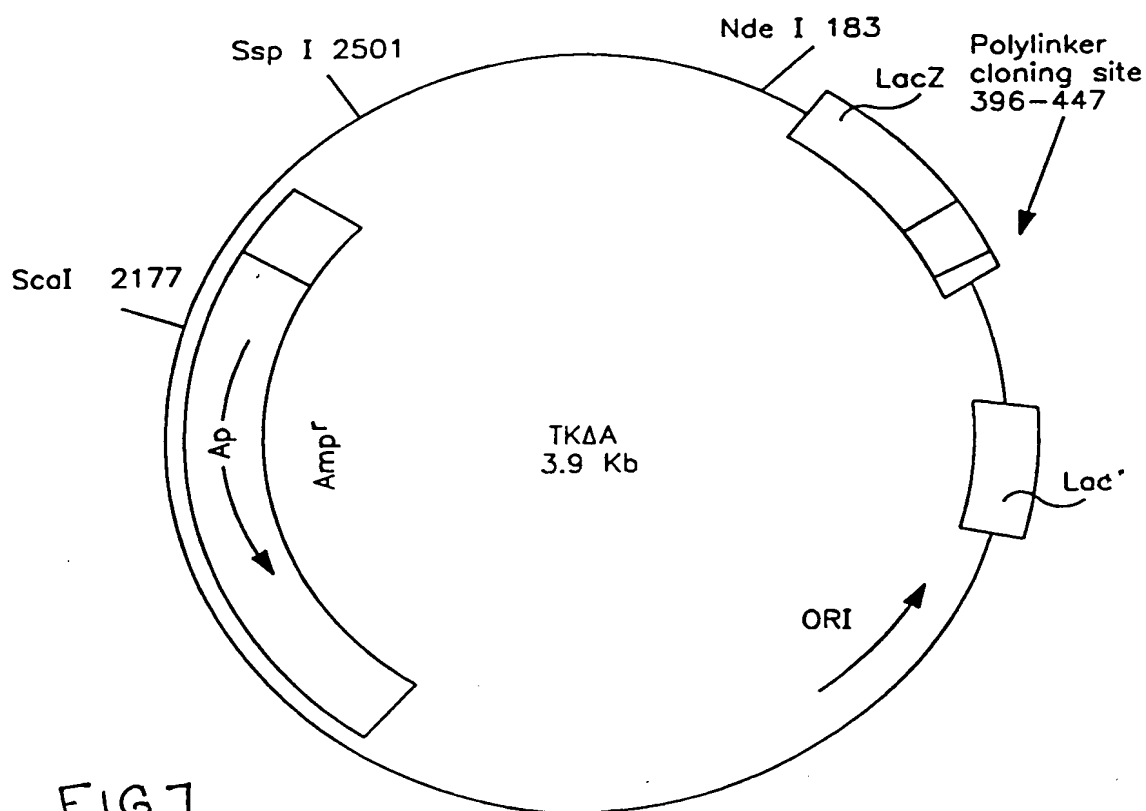
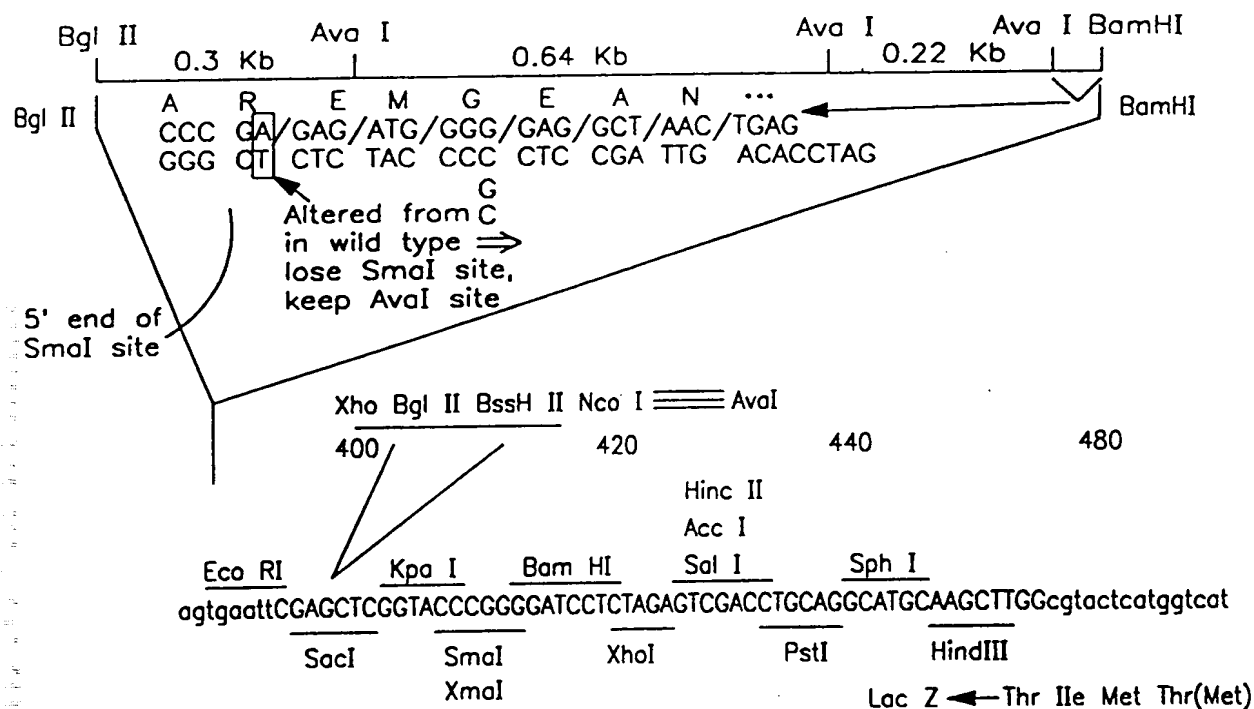


FIG. 7

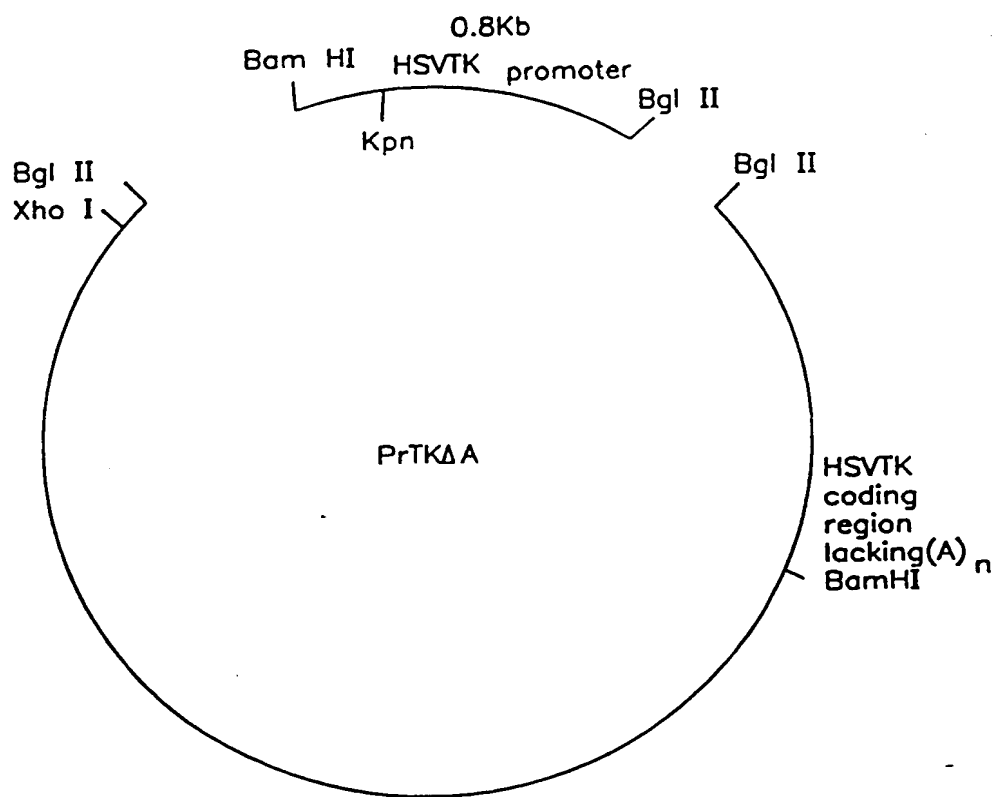


FIG. 8

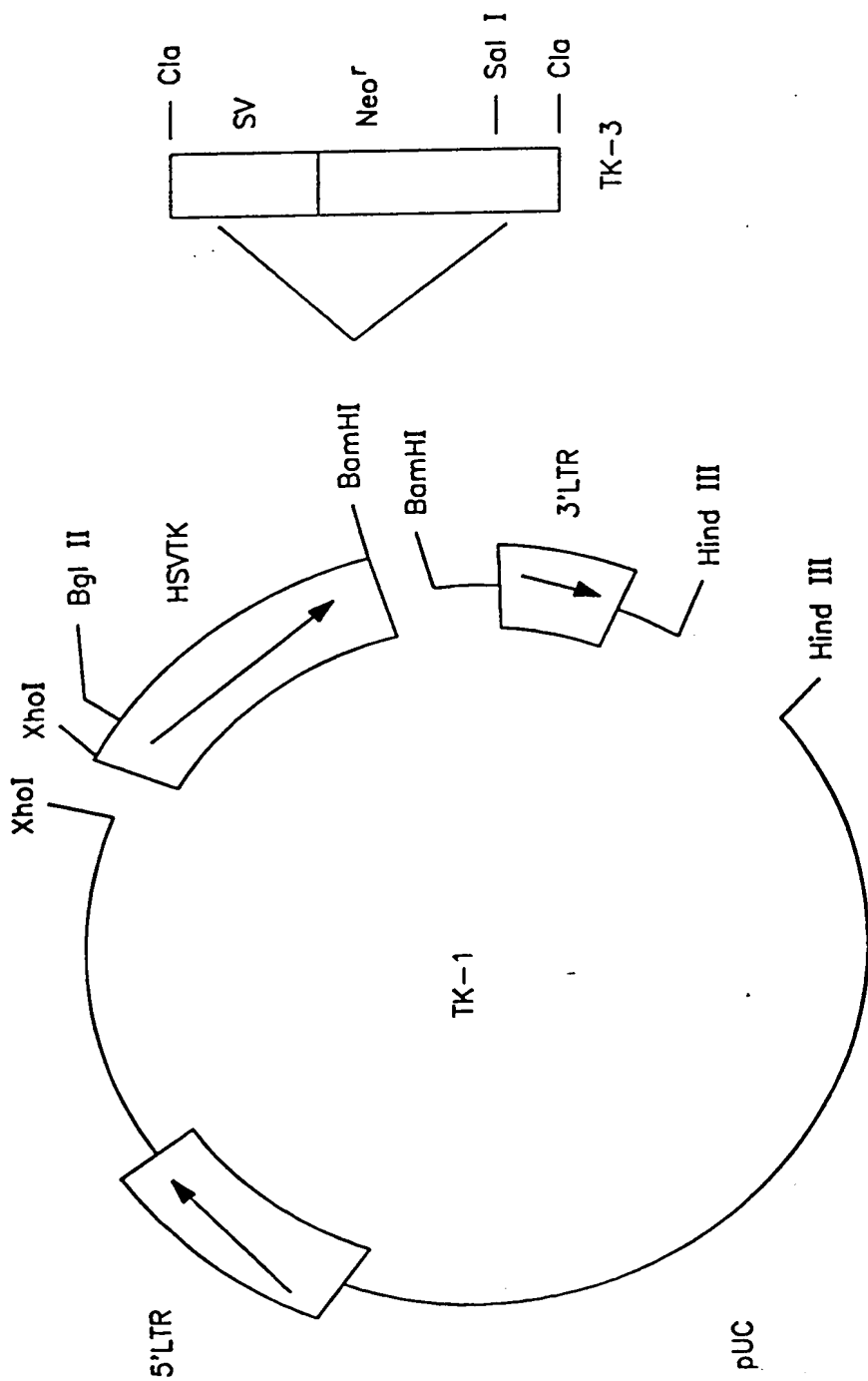


FIG. 9

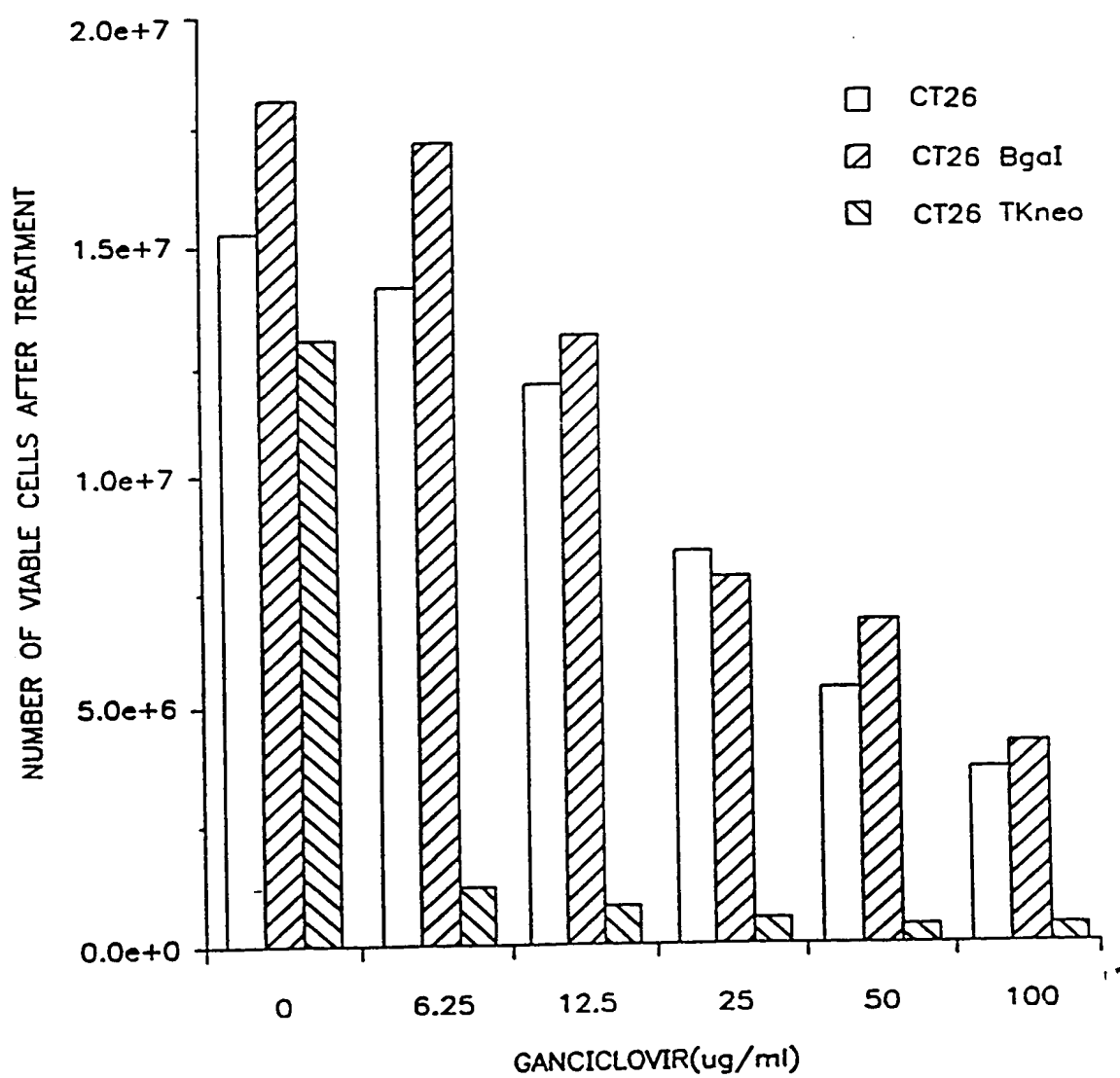


FIG. 10

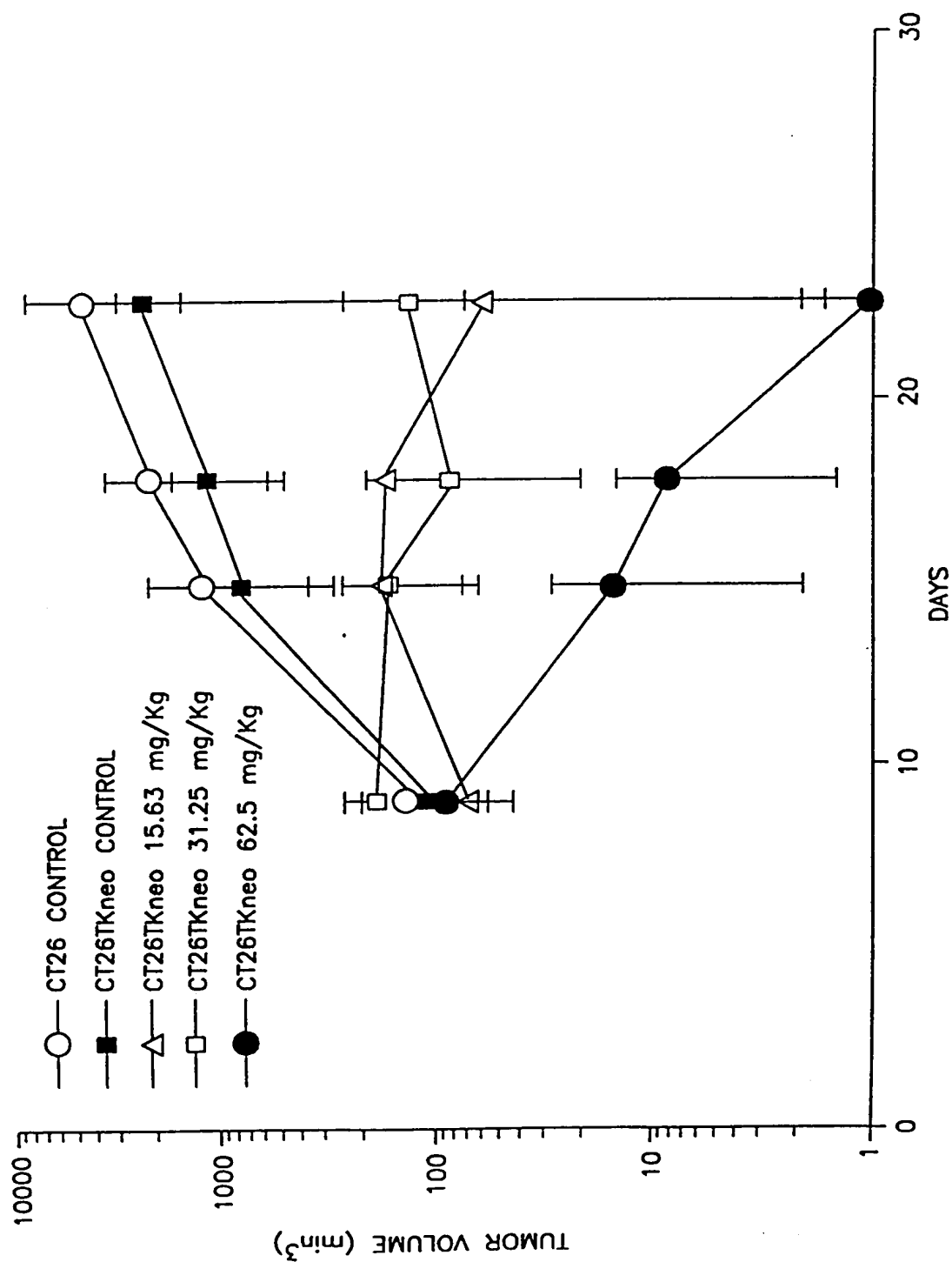


FIG. II

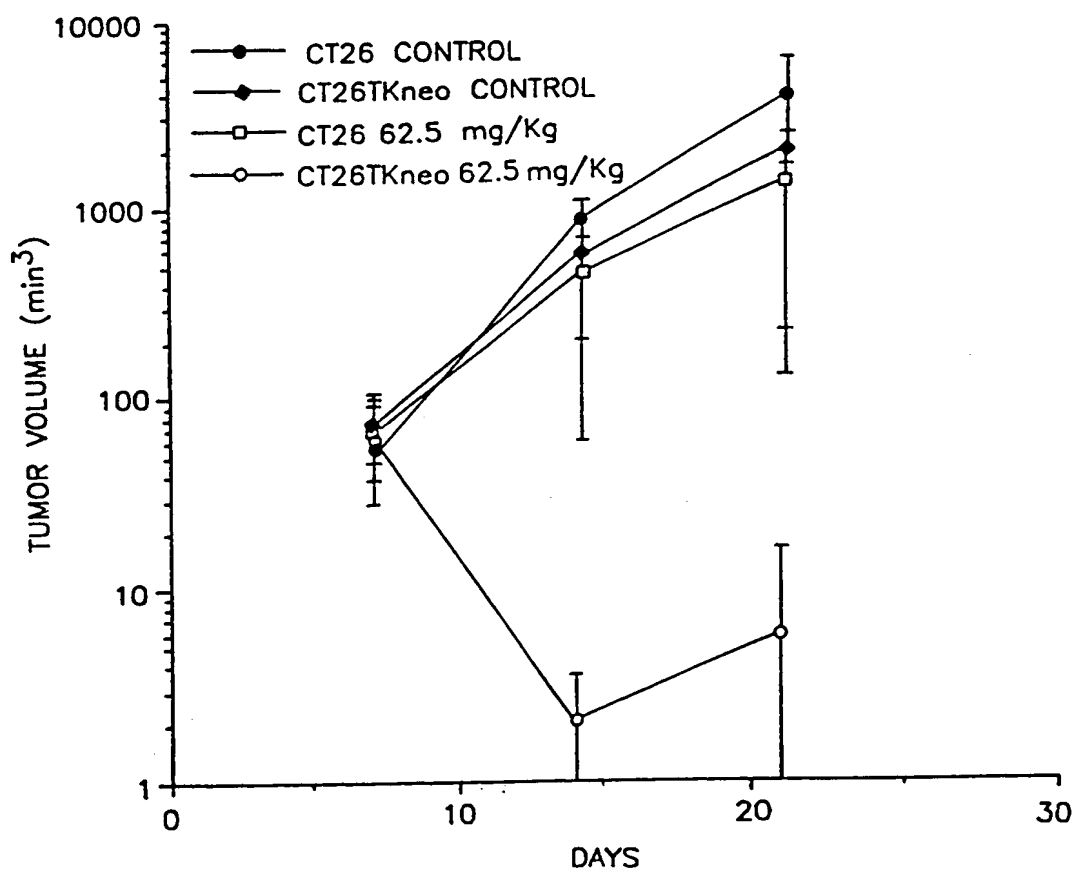
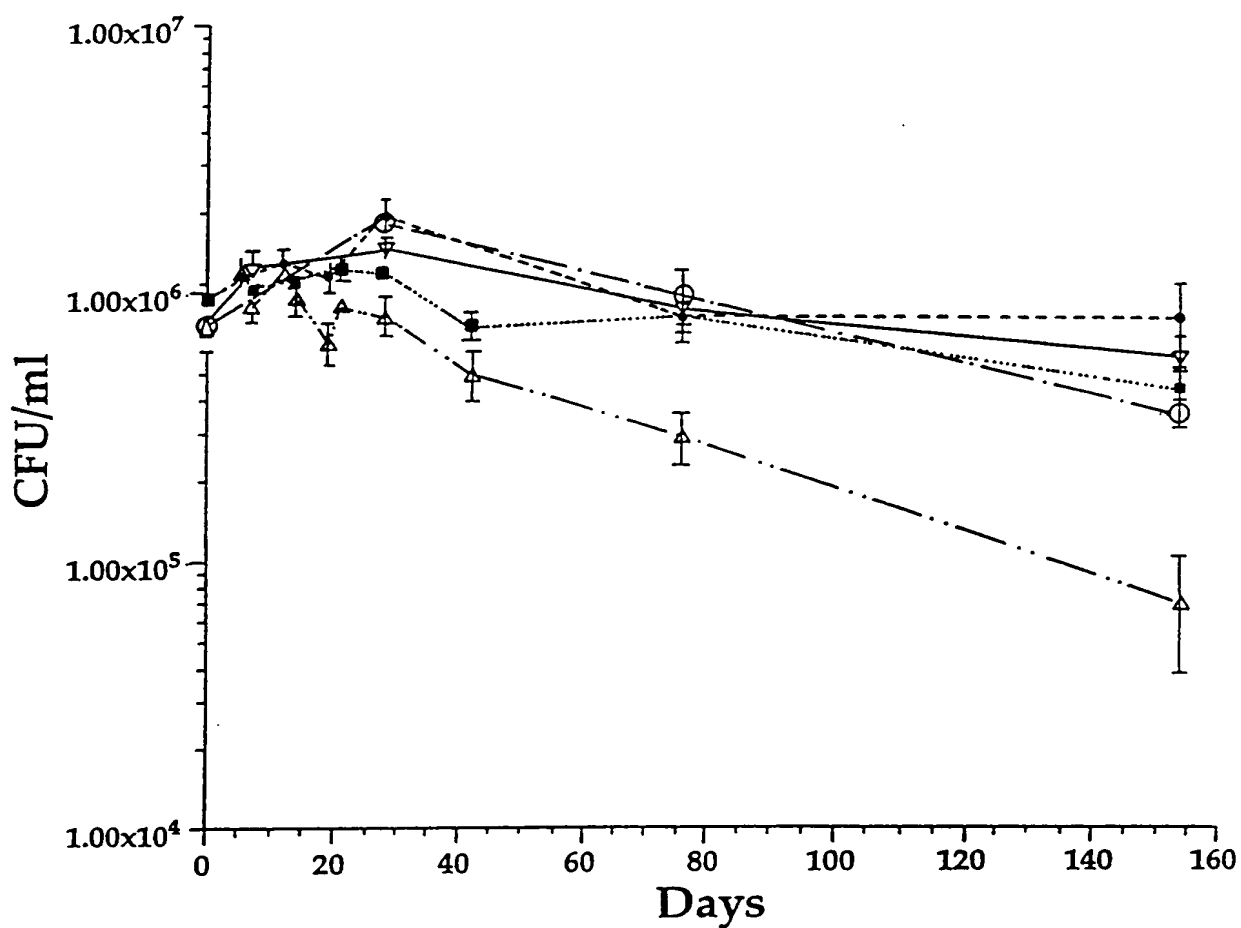


Fig 12



Formulation:

25mM Tris pH 7.2
 60mM NaCl
 1 mg/ml Arginine
 5 mg/ml HSA
 50 mg/ml Lactose

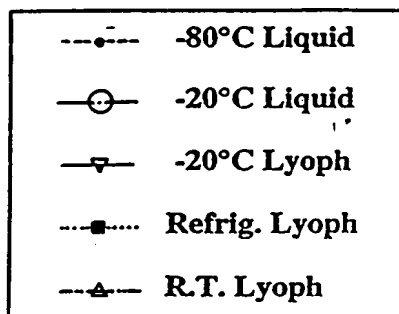


FIG. 13

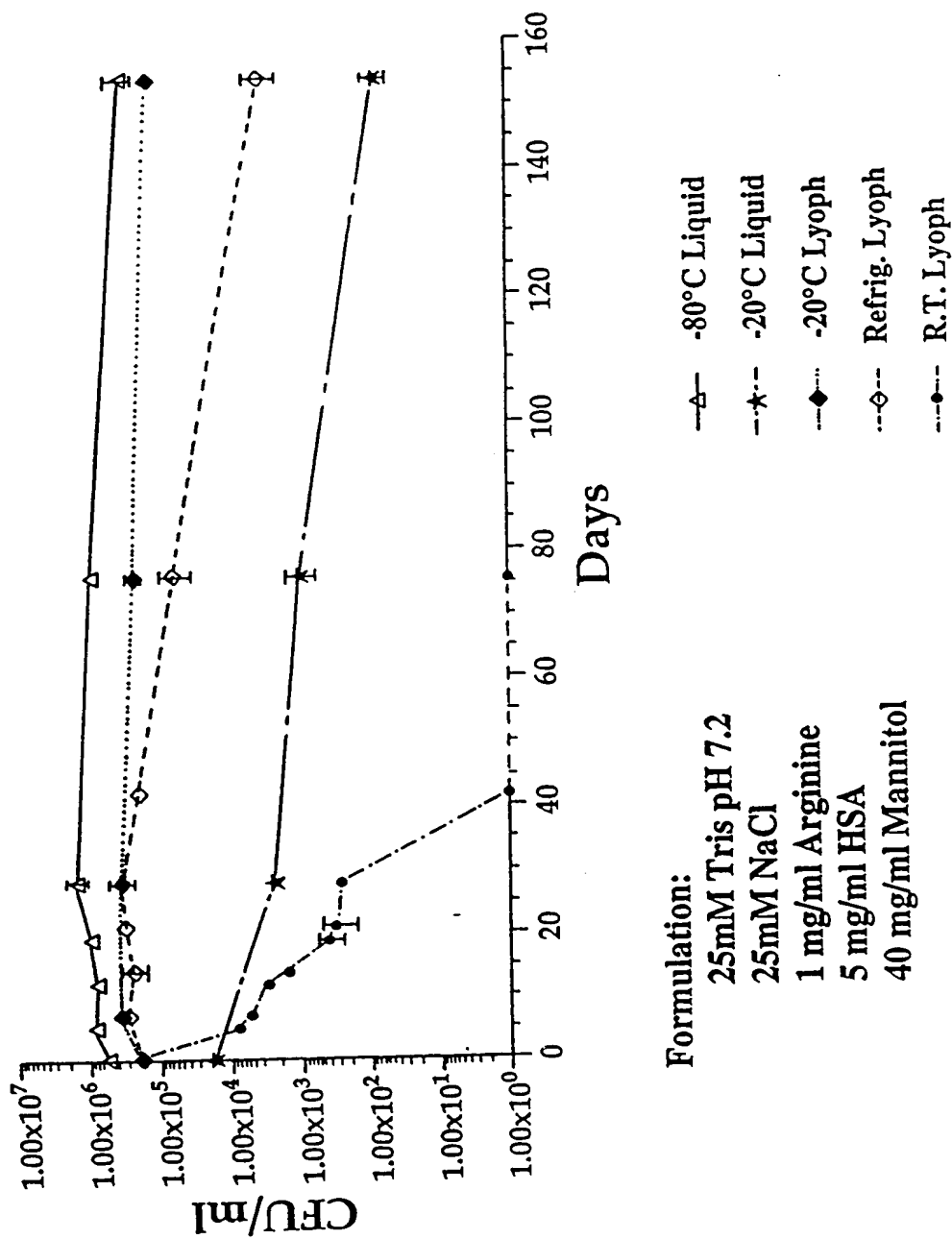
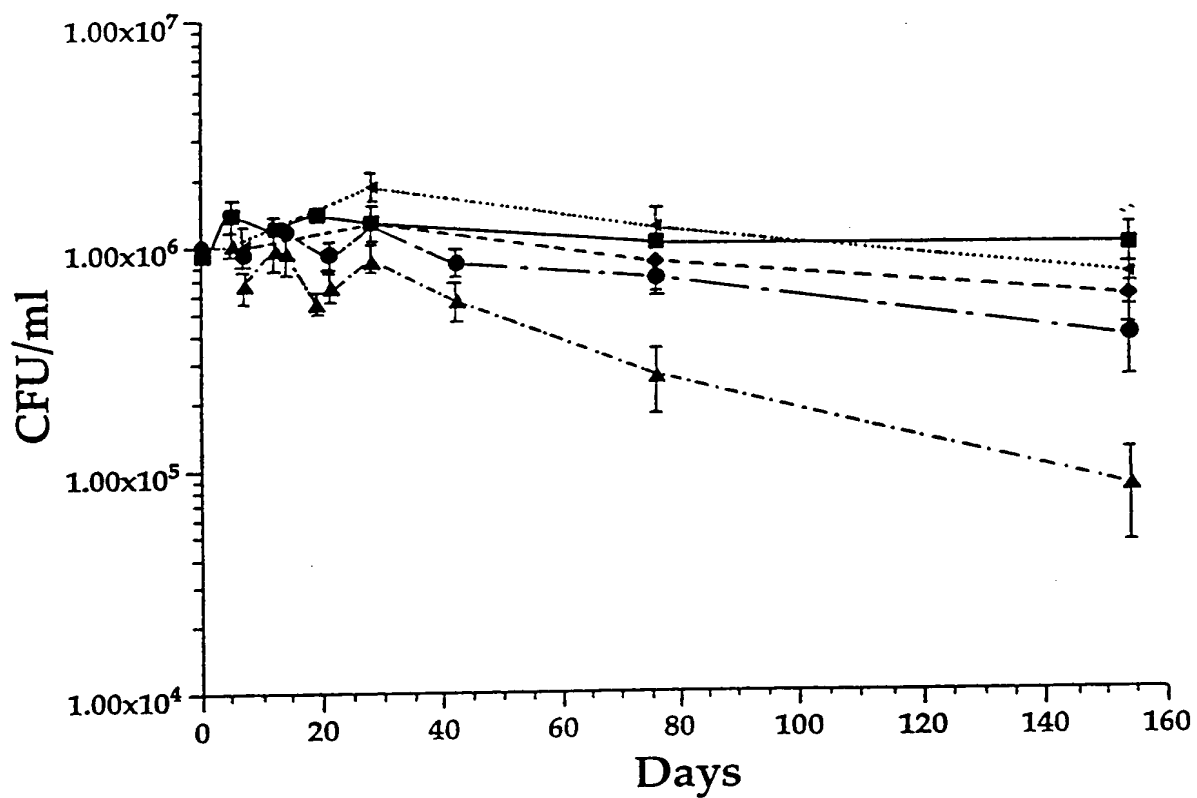


FIG. 14



Formulation:
 25mM Tris pH 7.2
 60mM NaCl
 1mg/ml Arginine
 5mg/ml HSA
 50mg/ml Trehalose

—■— -80°C Liquid
△..... -20°C Liquid
 ---◇--- -20°C Lyoph
 -.-.-●-.-.- Refrig. Lyoph
 —▲— R.T. Lyoph

FIG. 15

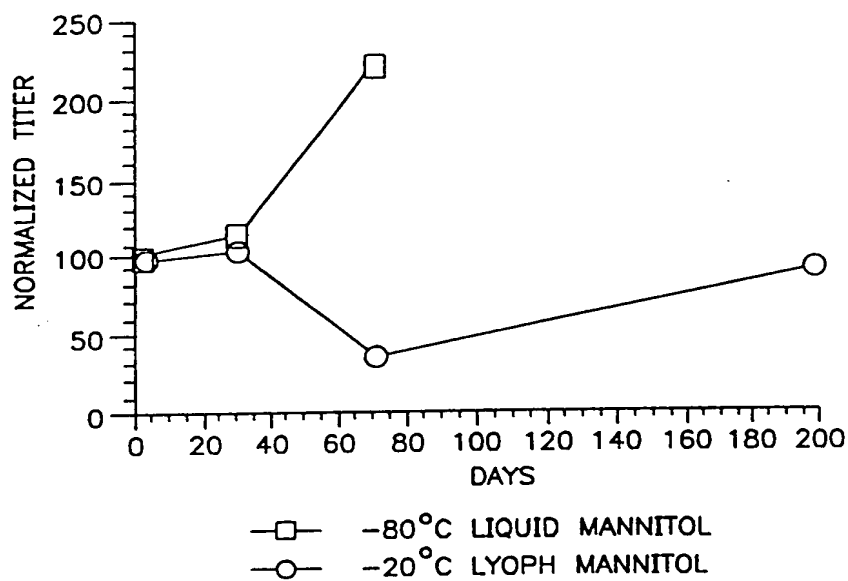


FIG. 16A

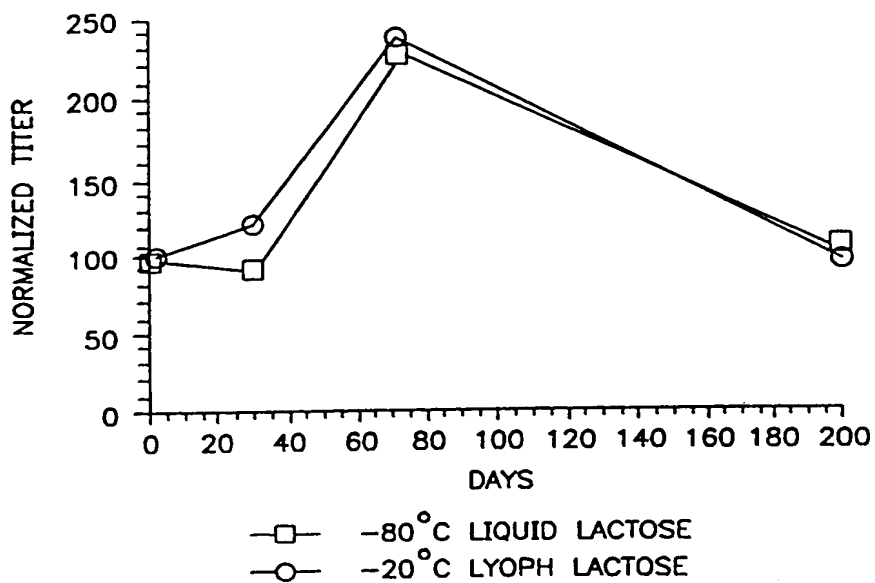


FIG. 16B

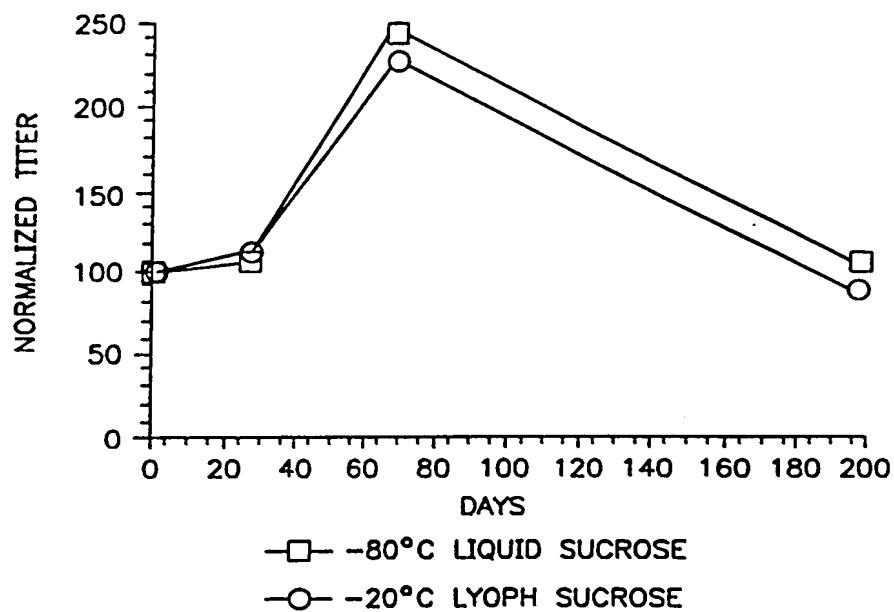


FIG. 16C

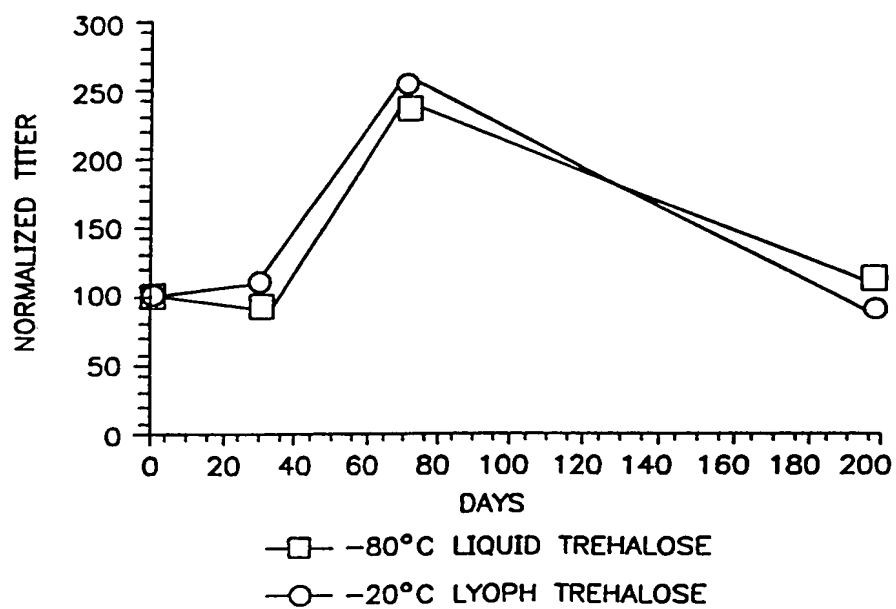


FIG. 16D

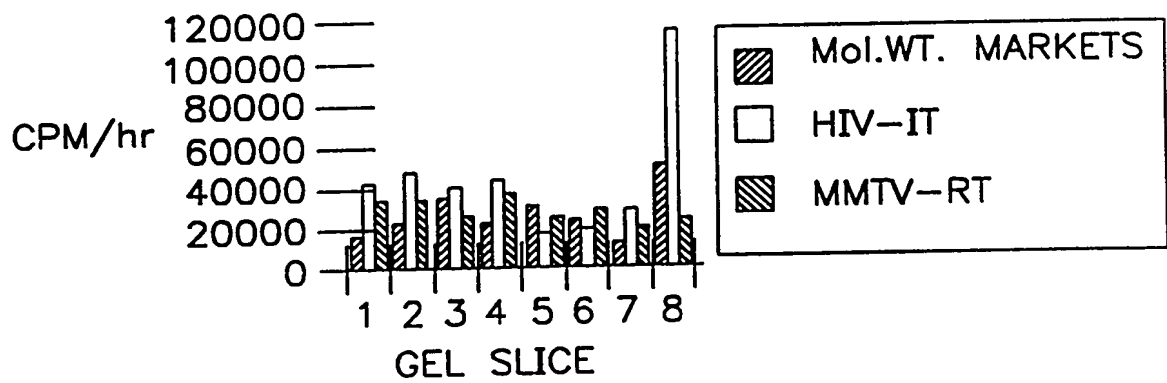


FIG. 17

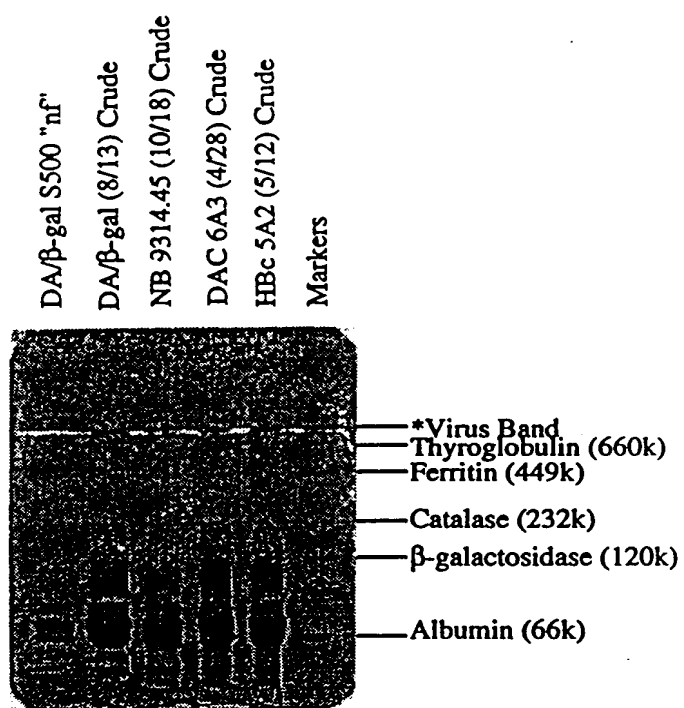


FIG. 18

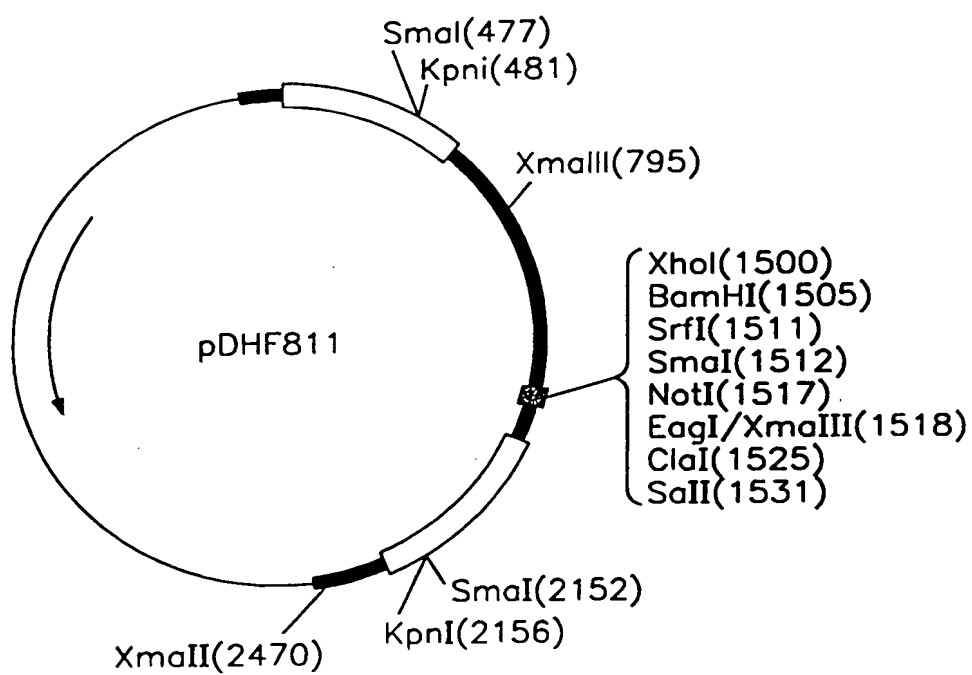


FIG. 19

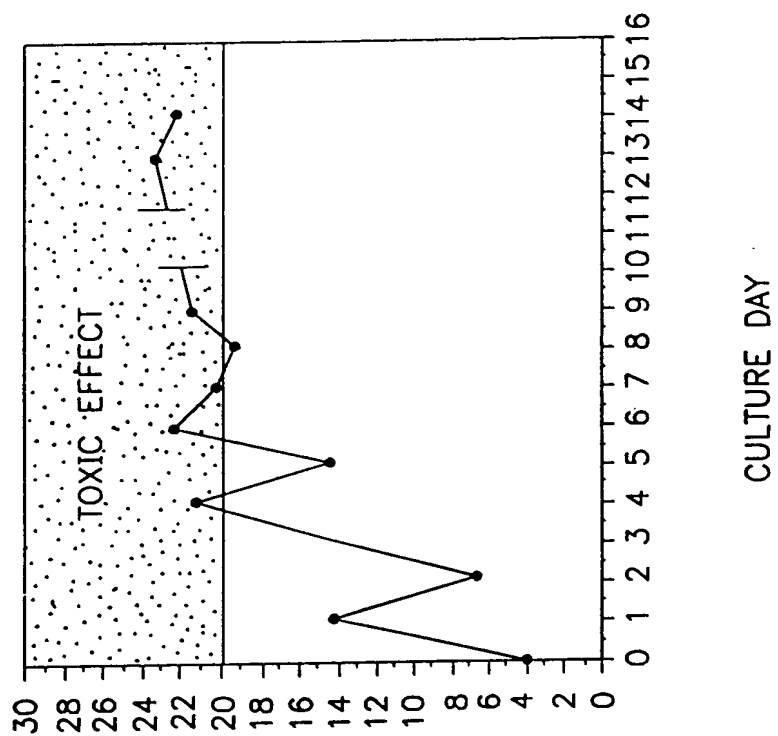


FIG. 20B

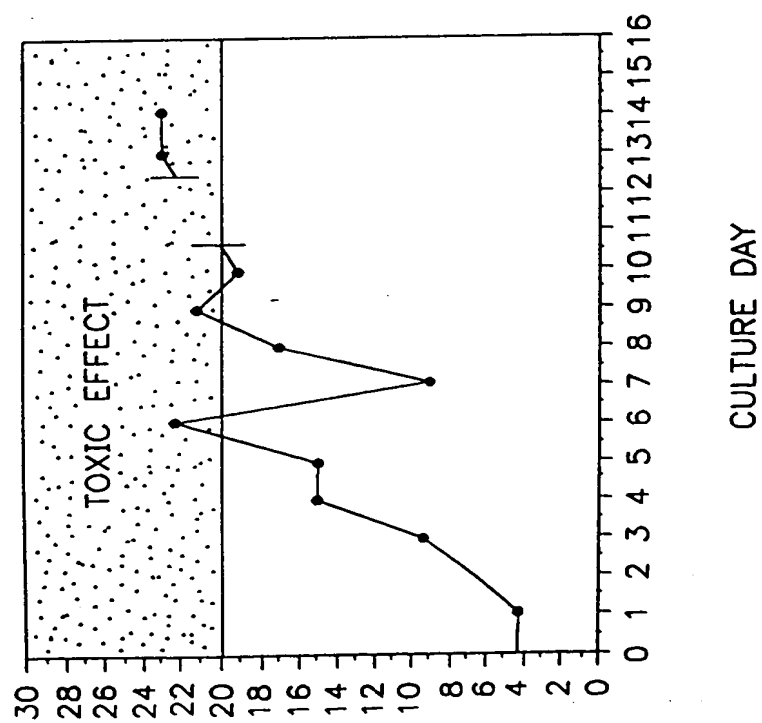


FIG. 20A

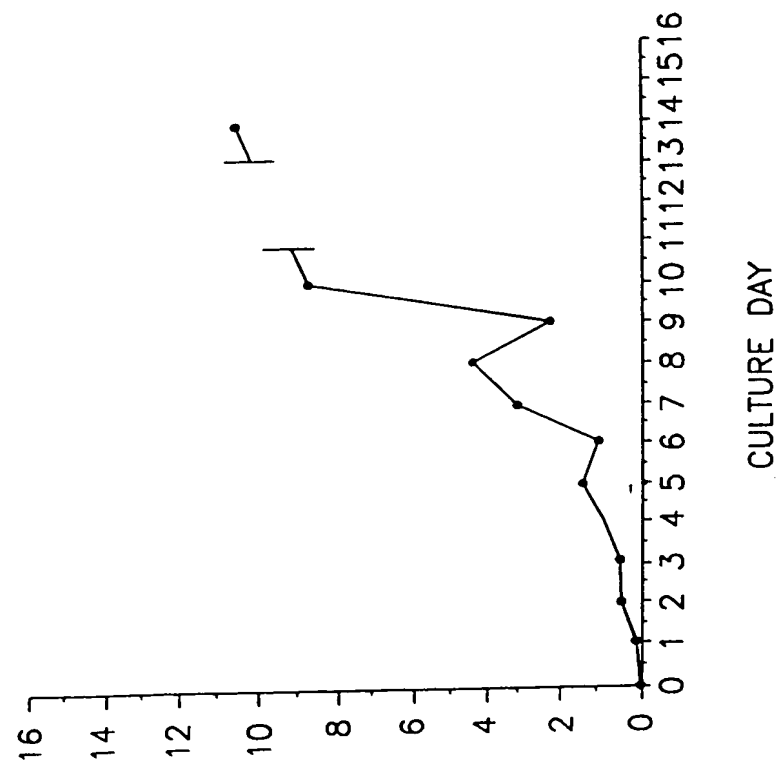


FIG. 20C

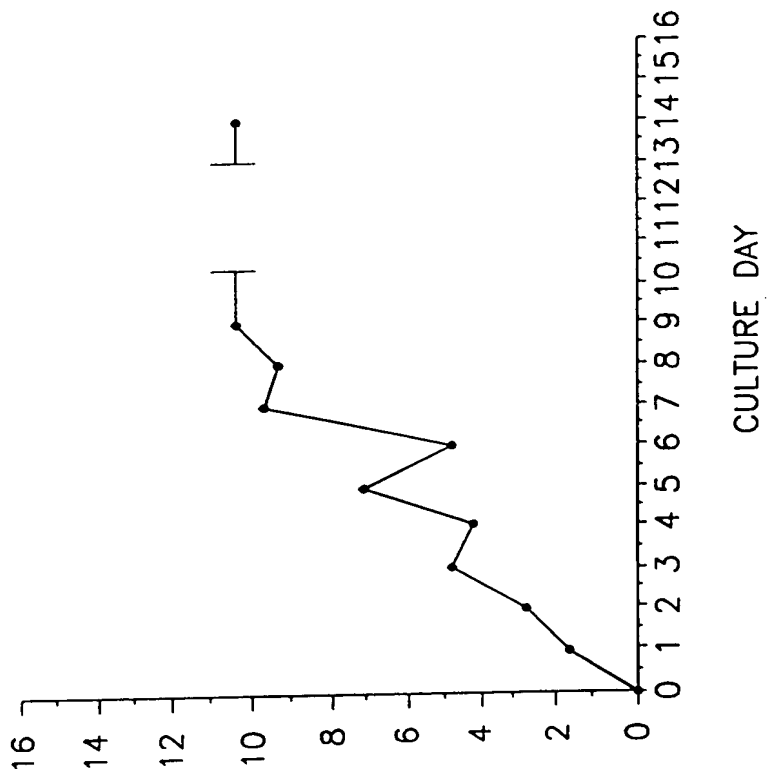


FIG. 20D

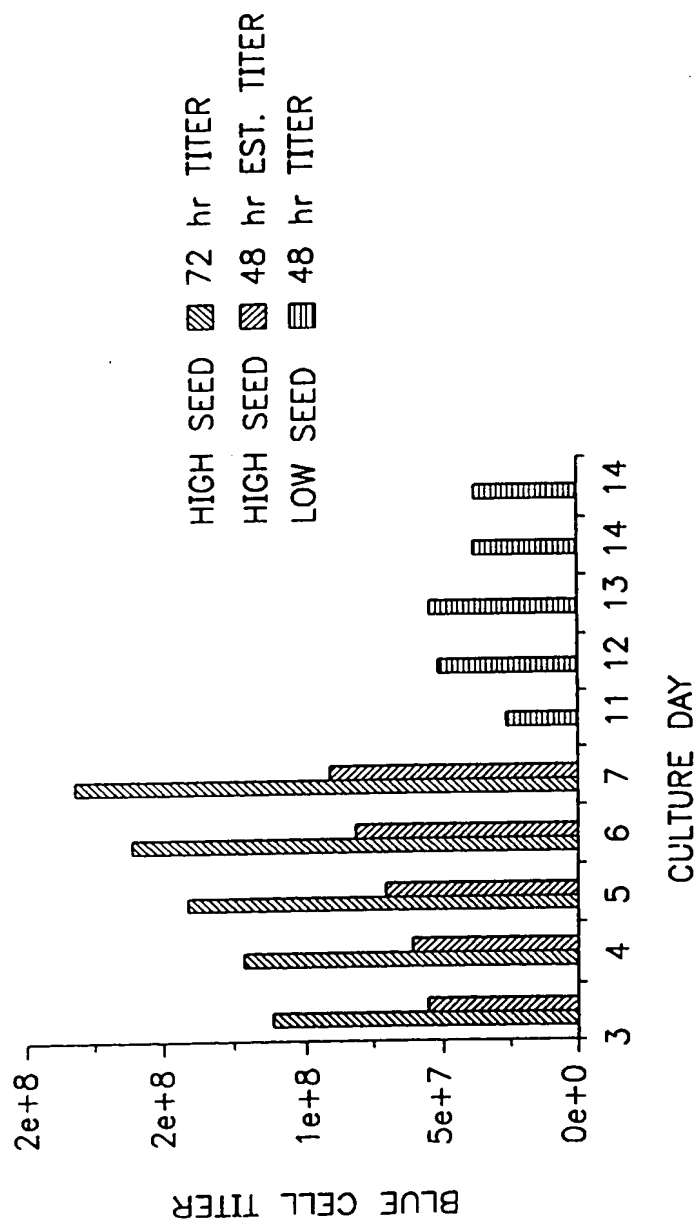
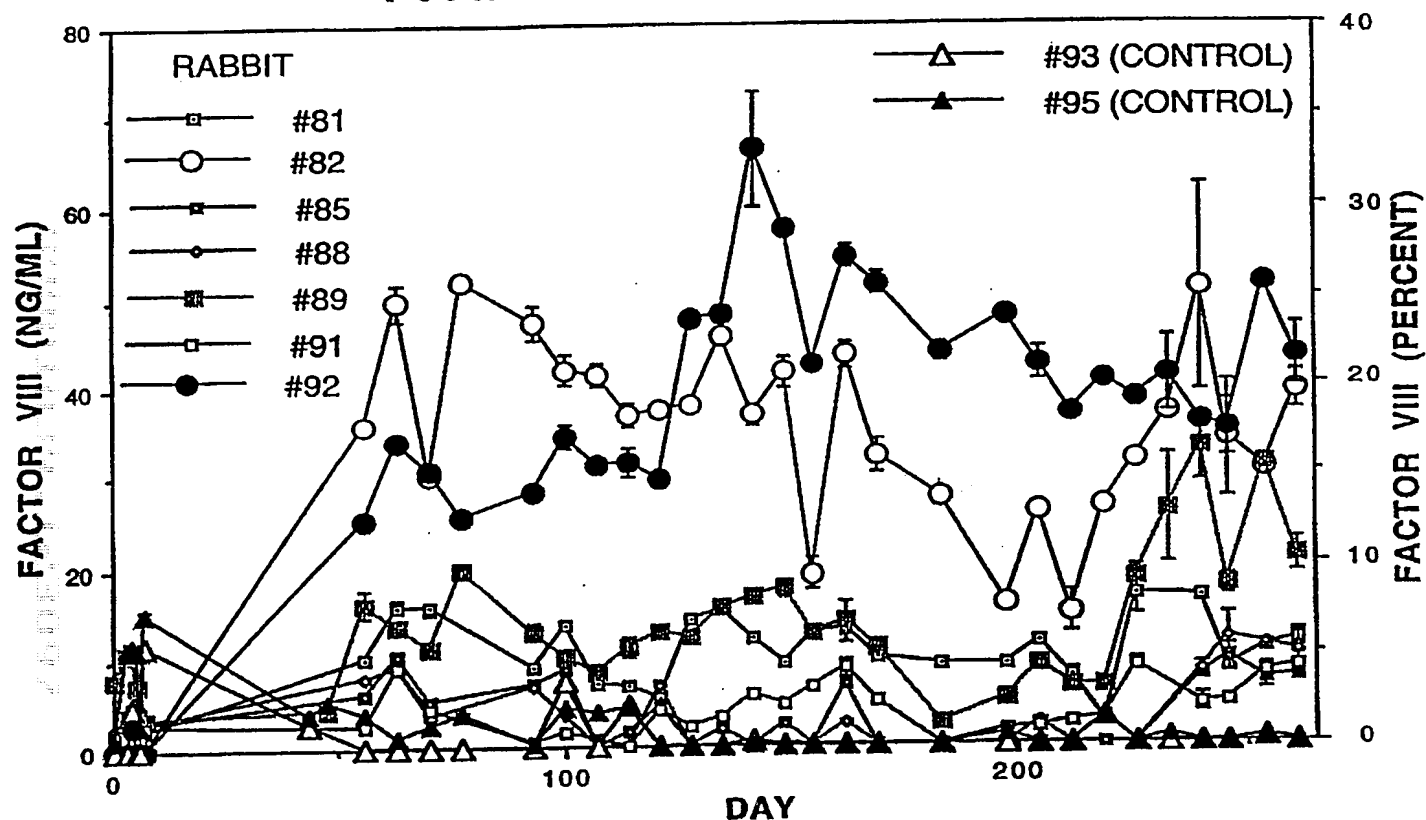


FIG. 21

Fig 22

P614.8 FACTOR VIII RABBITS



FACTOR VIII EXPRESSION IN RABBITS

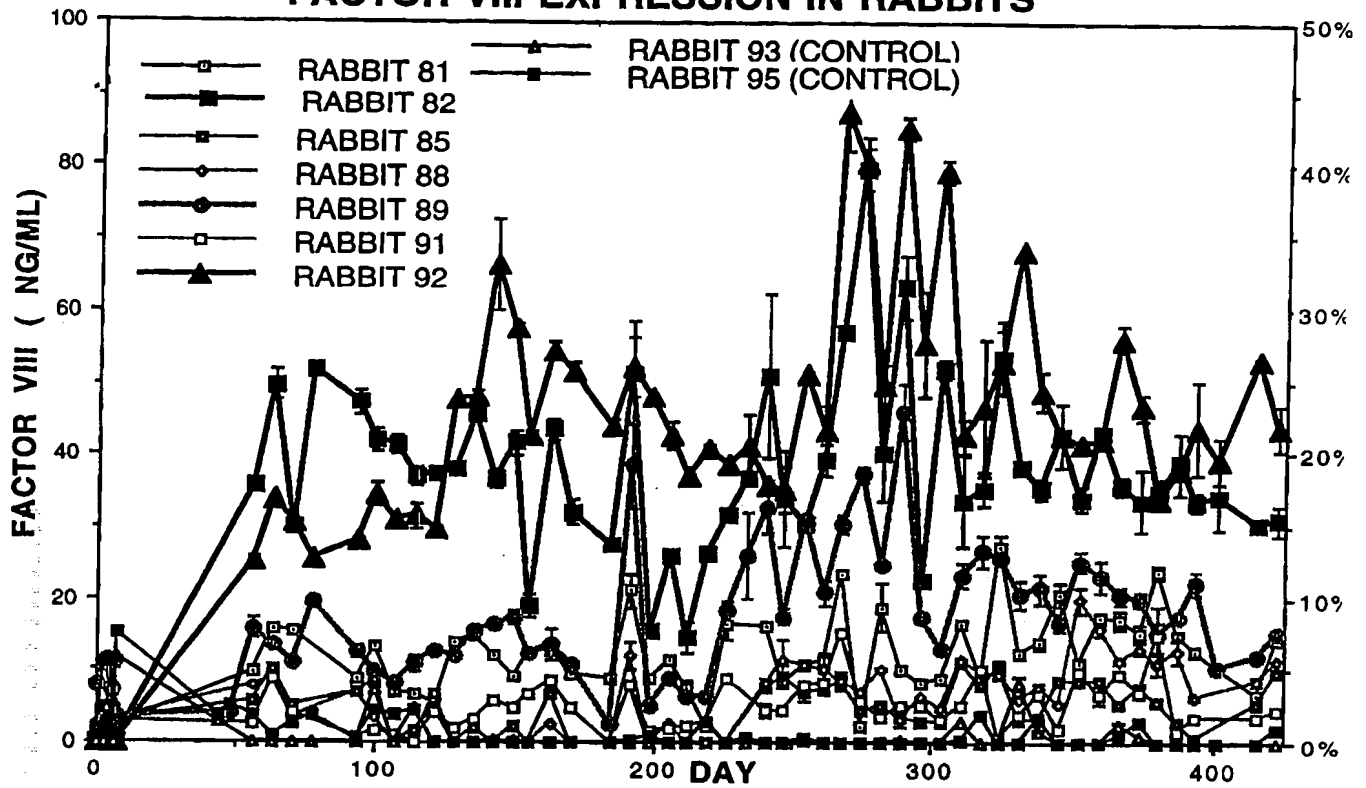


Fig 23

SYSTEMIC HUMAN GROWTH HORMONE EXPRESSION IN RABBITS

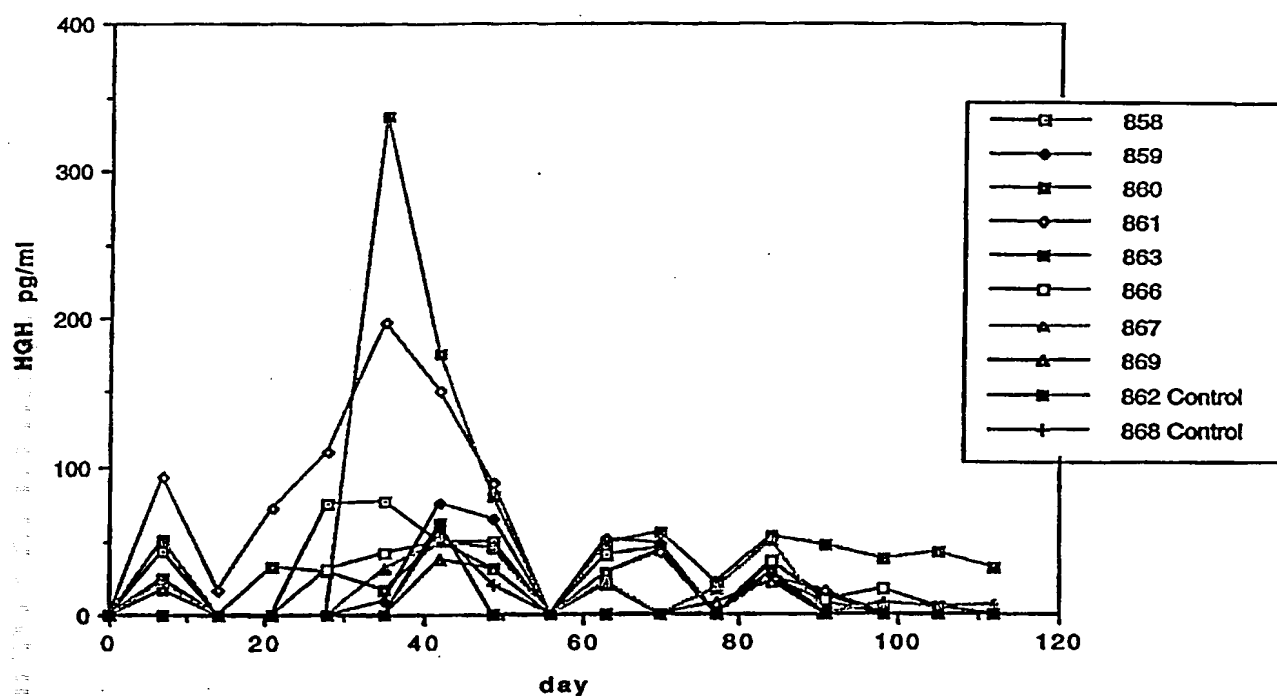
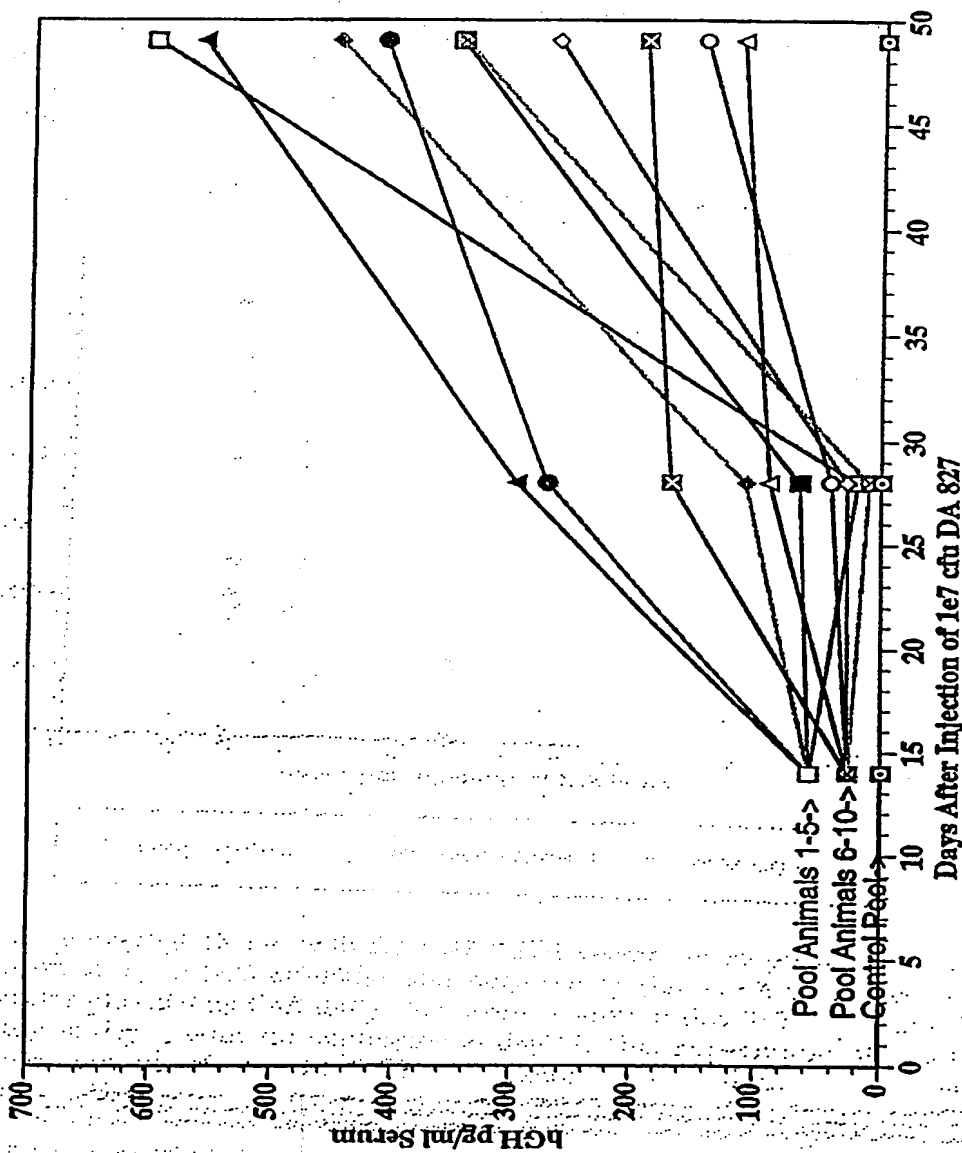


Fig 24

Time Course of hGH Expression in Mice Injected with DA 827

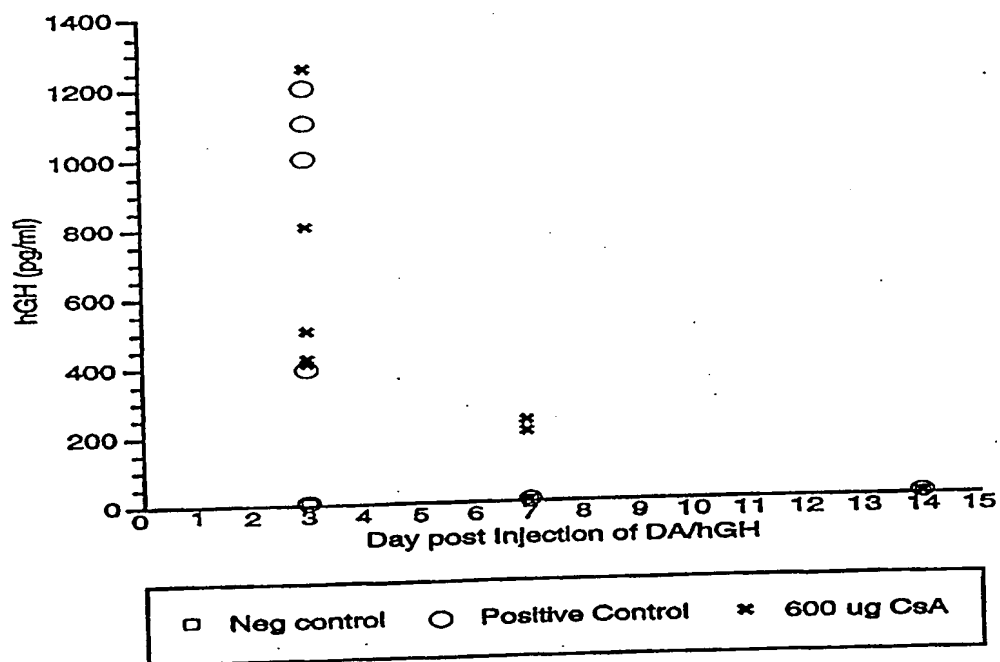


•Time Point 1 (Day 14) is an average of each pool.

Fig 25

Fig 26

hGH Levels in Murine Sera



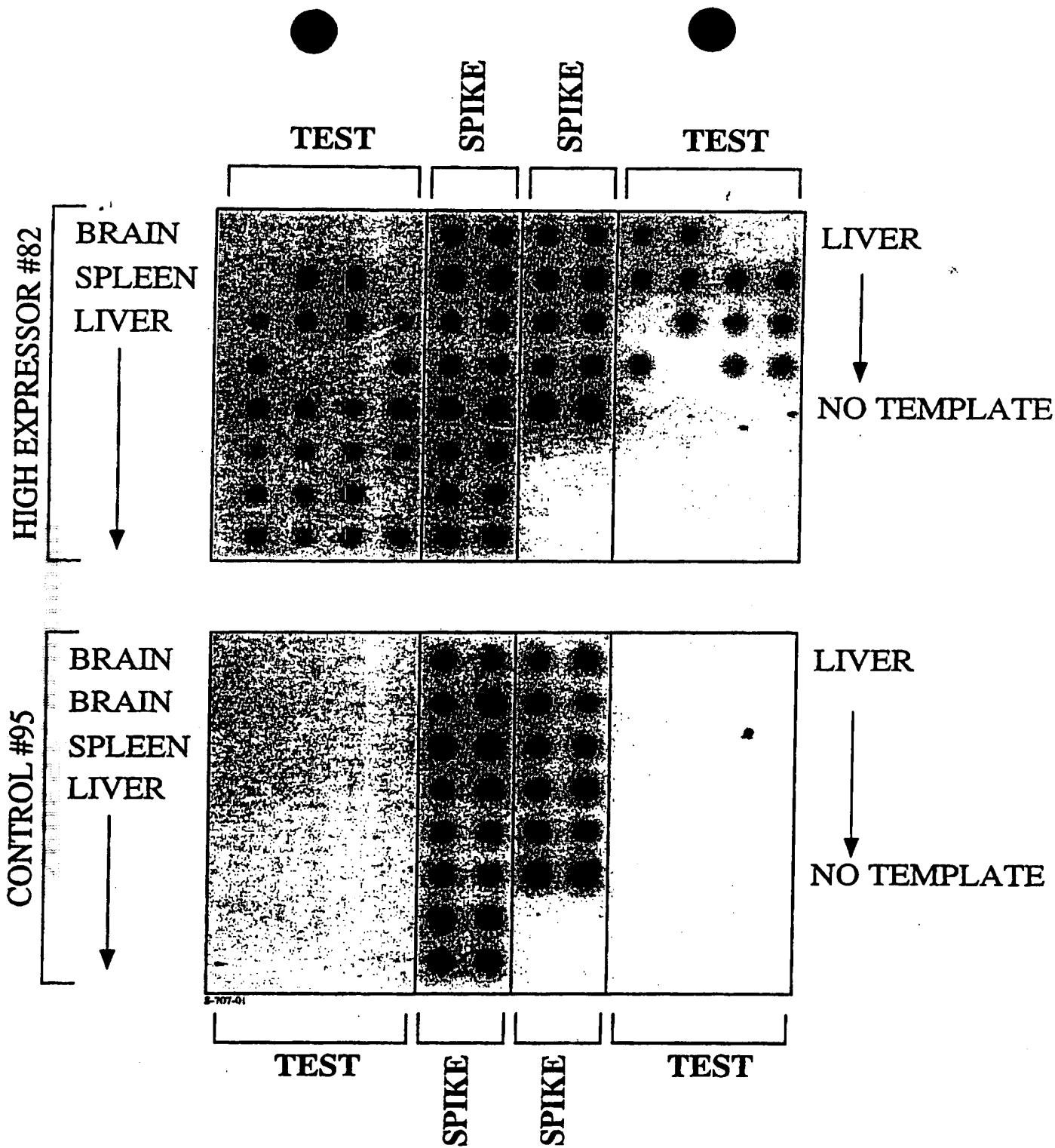


Fig 27

HUMAN GROWTH HORMONE PCR OF MOUSE TISSUE

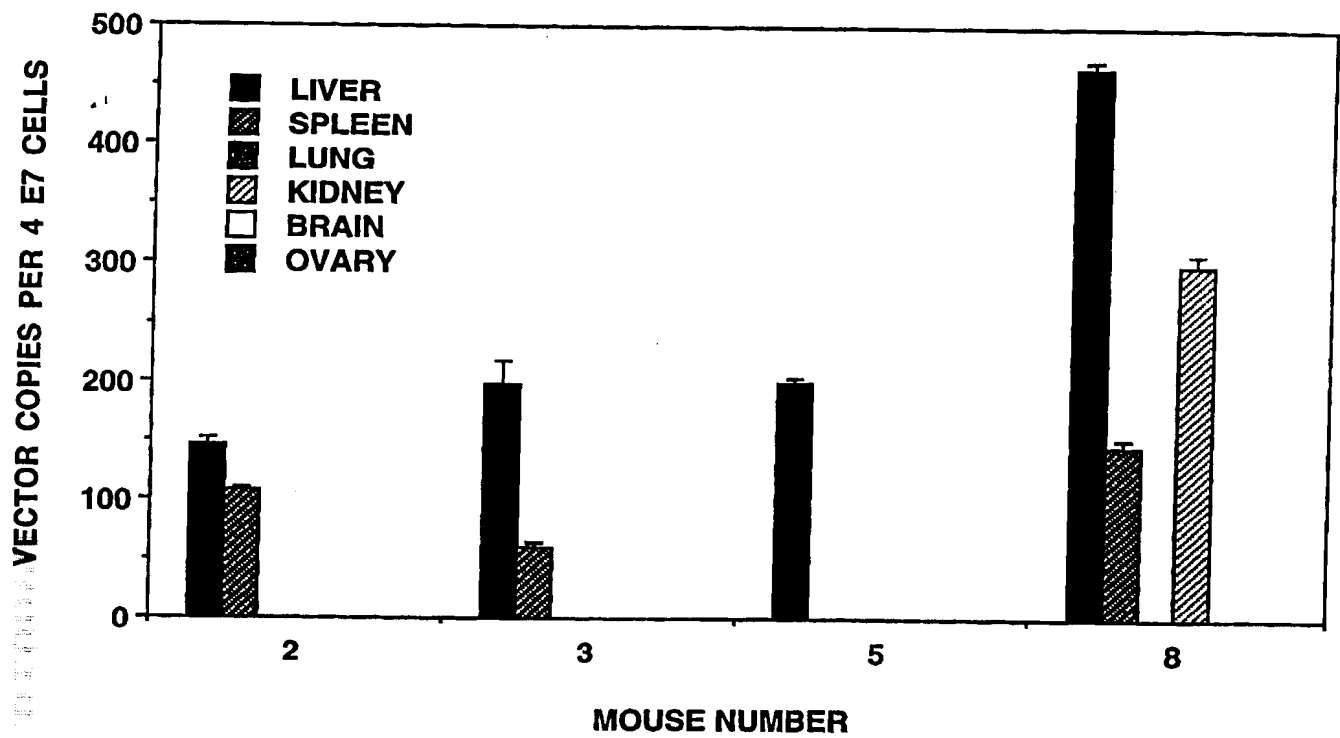


Fig 28

EXPRESSION OF HGH PROTEIN IN MOUSE ORGAN LYSATES

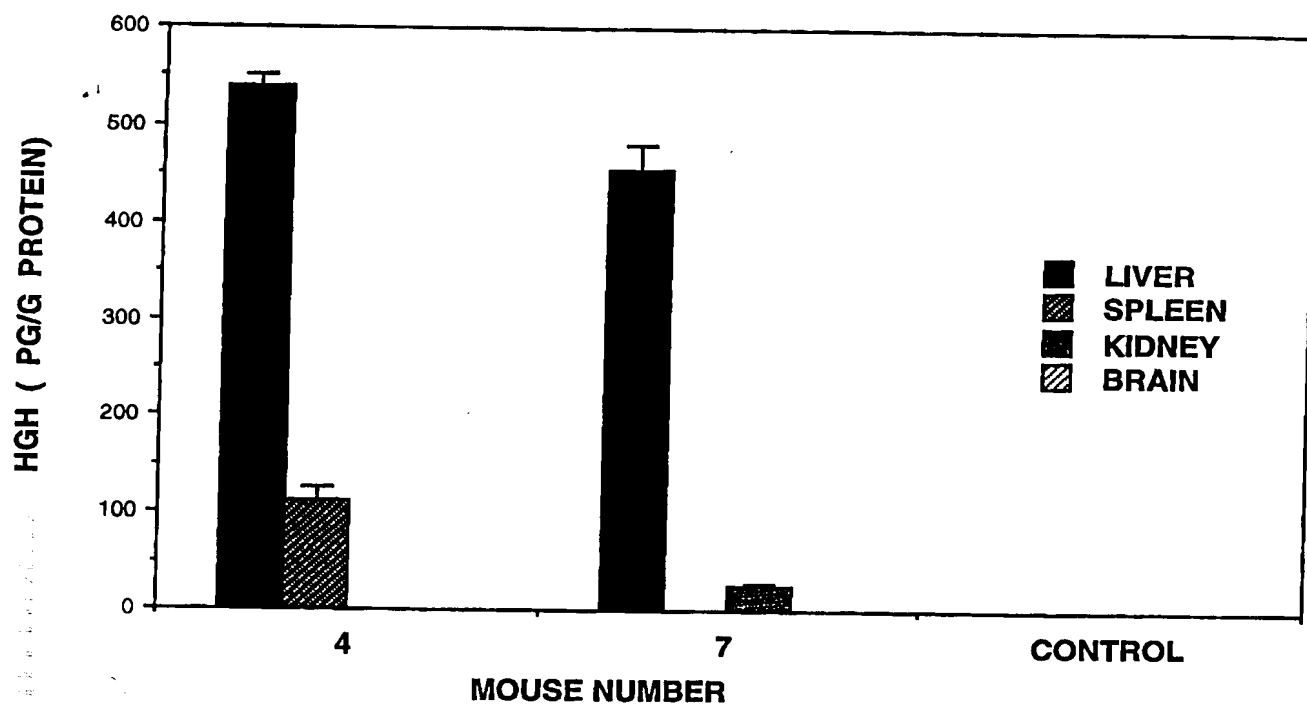


Fig 29

P888 NORMAL DOGS

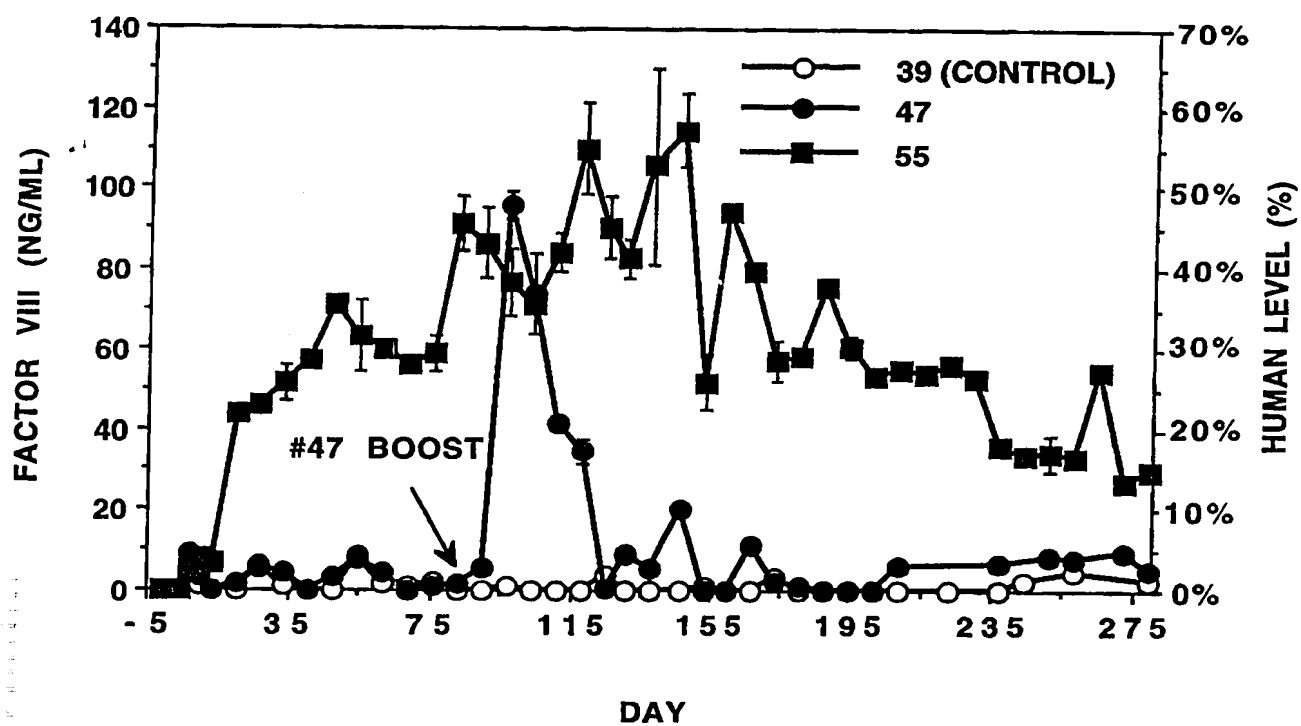


Fig 30

HEMOPHILIAC DOGS

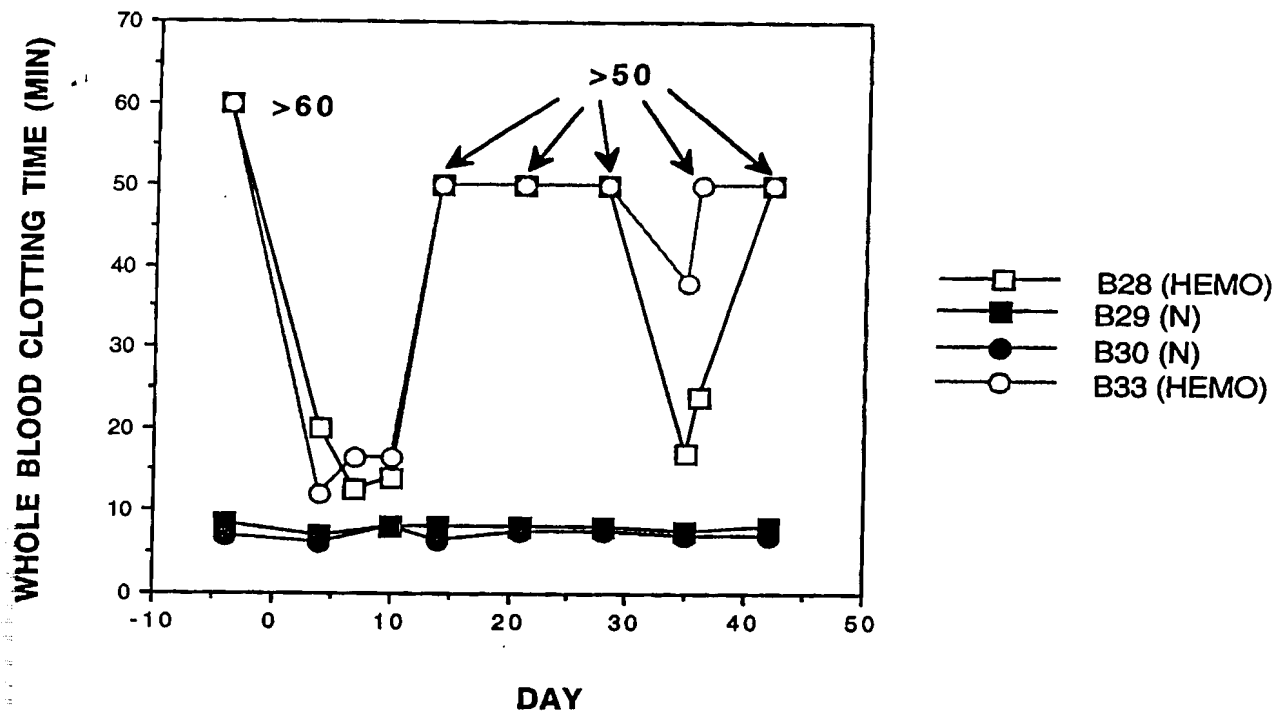


Fig 32

pKT1

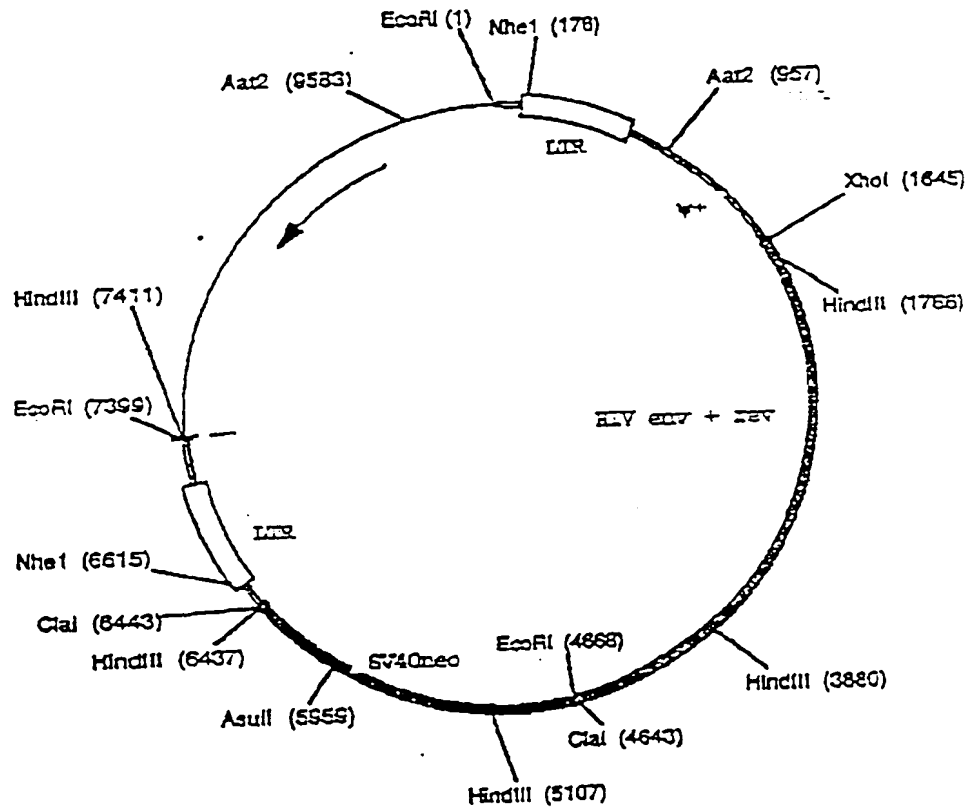


Fig 33

RETROVIRAL BACKBONE (N2-derived)

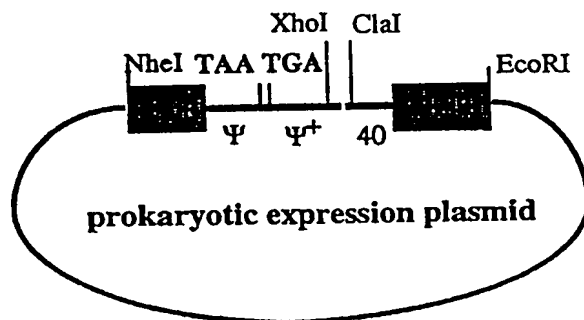


Fig 35

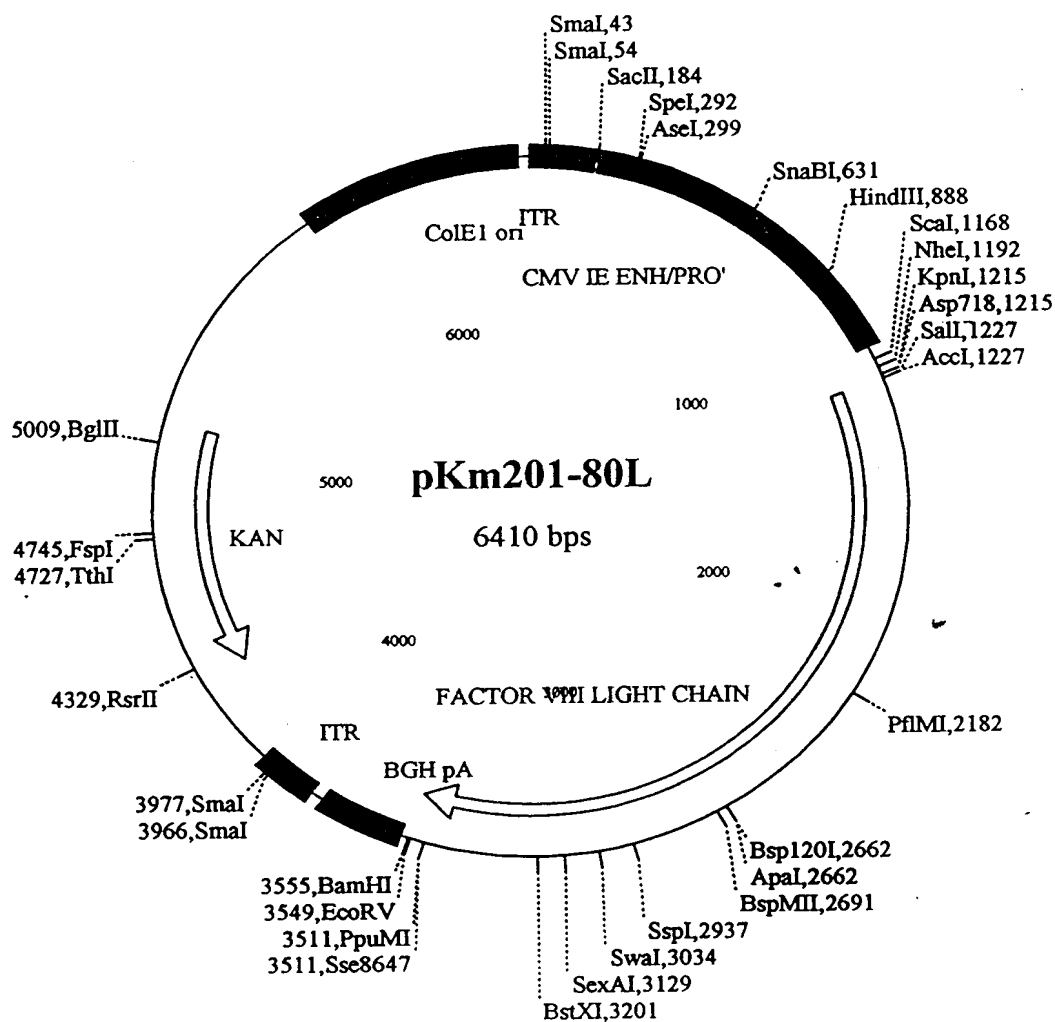


Fig 36

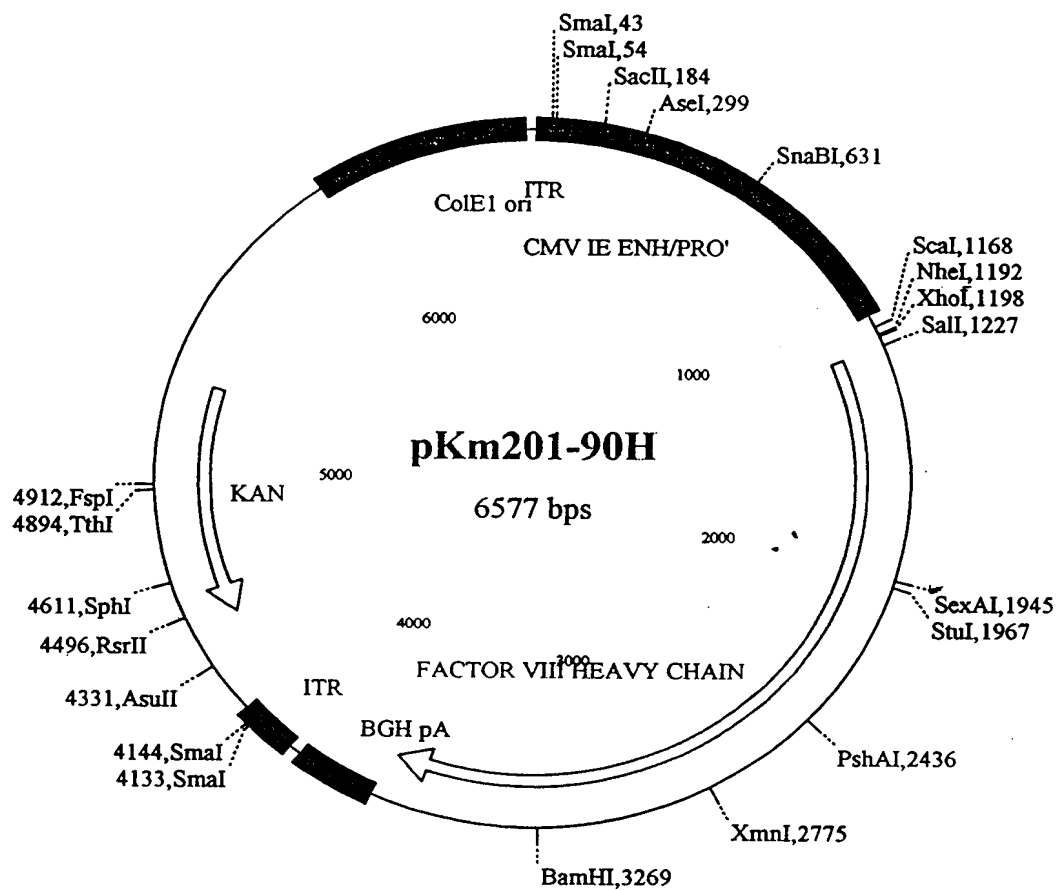
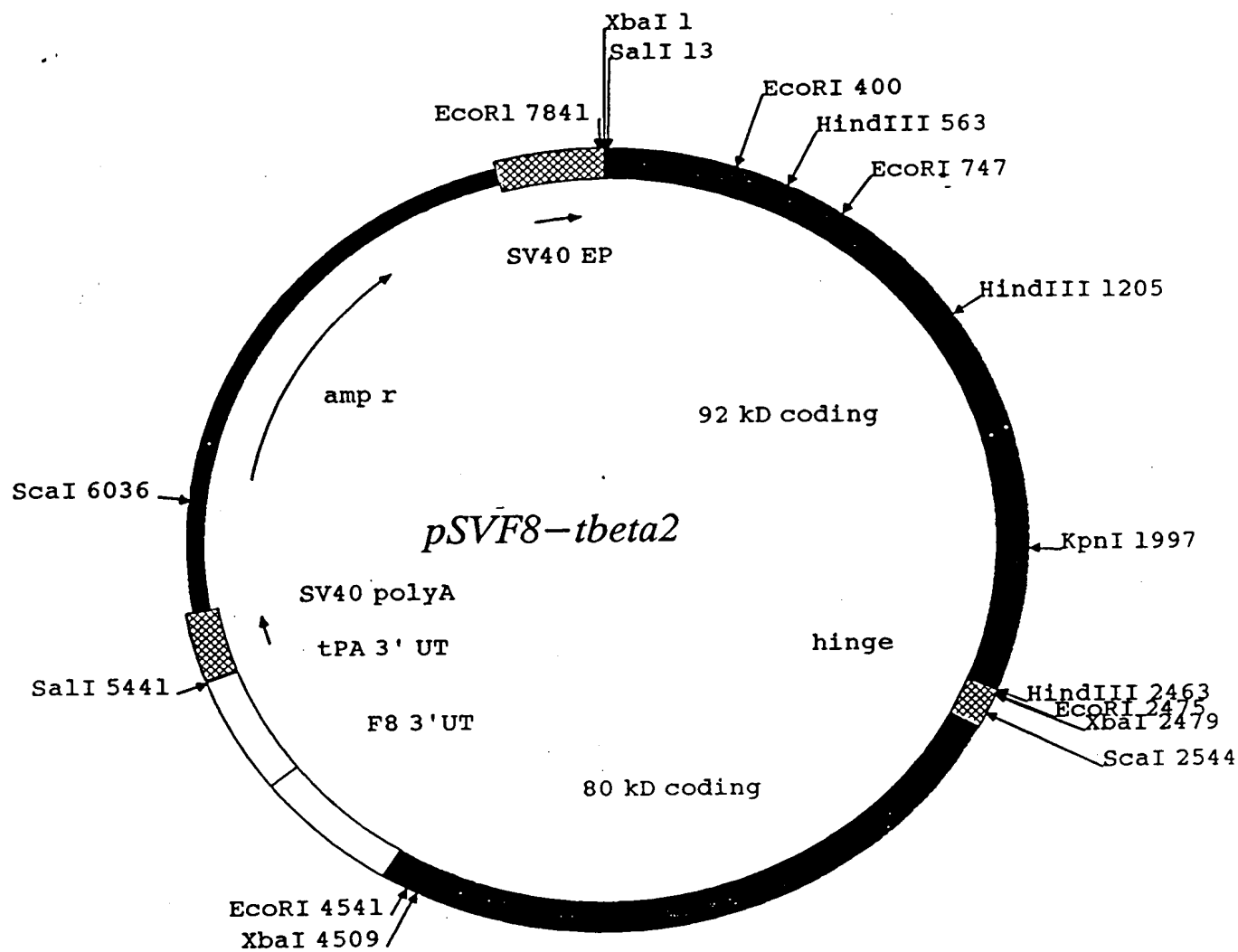


Fig 37



2341 ArgGlyMetThrAlaLeuLeuLysValSerSerCysAspLysAsnThrGlyAspTyrTyr Seq ID No. 48
 AGAGGCATGACCGCCTTACTGAAGGTTTCTAGTTGTGACAAGAACACTGGTGATTATTAC Seq ID No. 49
 TCTCCGTACTGGCGGAATGACTTCCAAAGATCAACACTGTTCTTGTGACCACTAATAATG

2401 GluAspSerTyrGluAspIleSerAlaTyrLeuLeuSerLysAsnAsnAlaIleGluPro
 GAGGACAGTTATGAAGATATTTTCAGCATACTTGCTGAGTAAAAACAATGCCATTGAACCA
 CTCCTGTCAATACTTCTATAAAGTCGTATGAACGACTCATTTTTGTTACGGTAACCTGGT

<----- N-terminus of beta domain ----->

2461 ArgSerPheSerGlnAsnSerArgHisProSerThrArgGlnLysGlnPheAsnAlaThr
 AGAAGCTTCTCCAGAATTCTAGACACCCTAGCACTAGGCAAAAGCAATTTAATGCCACC
 TCTTCGAAGAGGGTCTTAAGATCTGTGGGATCGTGATCCGTTTTCGTTAAATTACGGTGG

2463 HIND3, 2475 ECORI, 2479 XBAI,

<-- IgA hinge ---><-- C-term. beta domain -->

2521 ProProThrProProThrProProValLeuLysArgHisGlnArgGluIleThrArgThr
 CCTCCTACACCACCAACCCACCAGTACTGAAACGCCATCAACGGGAAATAACTCGTACT
 GGAGGATGTGGTGGTTGGGGTGGTCATGACTTTGCGGTAGTTGCCCTTATTGAGCATGA

2544 SCAI,

2581 ThrLeuGlnSerAspGlnGluGluIleAspTyrAspAspThrIleSerValGluMetLys
 ACTCTTCAGTCTGATCAAGAGGAAATTGACTATGATGATACCATATCAGTTGAAATGAAG
 TGAGAAGTCAGACTAGTTCTCCTTTAACTGATACTACTATGGTATAGTCAACTTTACTTC

2592 BCLI,

Fig 38

Fig 39

ECOR1-----MLU1-----BCL1

NRU1

β region

Seq ID No. 75 AsnSerArgHisProSer GlnAsnProProValLeuLysArgHisGlnArgGluIleThr

Seq ID No. 77 2 AATTCGCGACACCCTAGC CAAAACCCACCAGTCTTGAAACCCCATCAACGGGAAATAACG

Seq ID No. 79 GCGCTGTGGGATCGGTTTTGGGTGGTCAGAAC TTTGCGGTAGTTGCCCTTTATTGC

F8-14E F8-16E F8-15E F8-17E

1 ECOR1, 5 NRU1, 59 MLU1,

Seq ID No. 81 ArgThrLeuGlnSerAsp

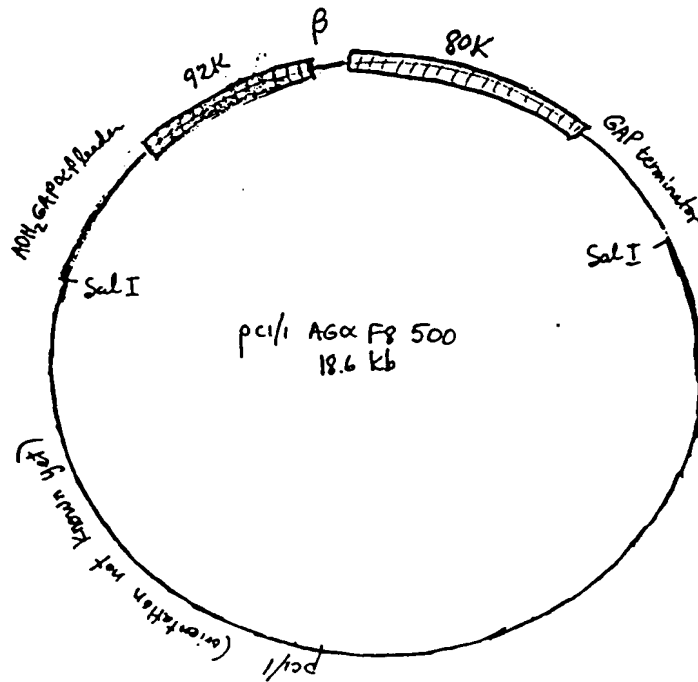
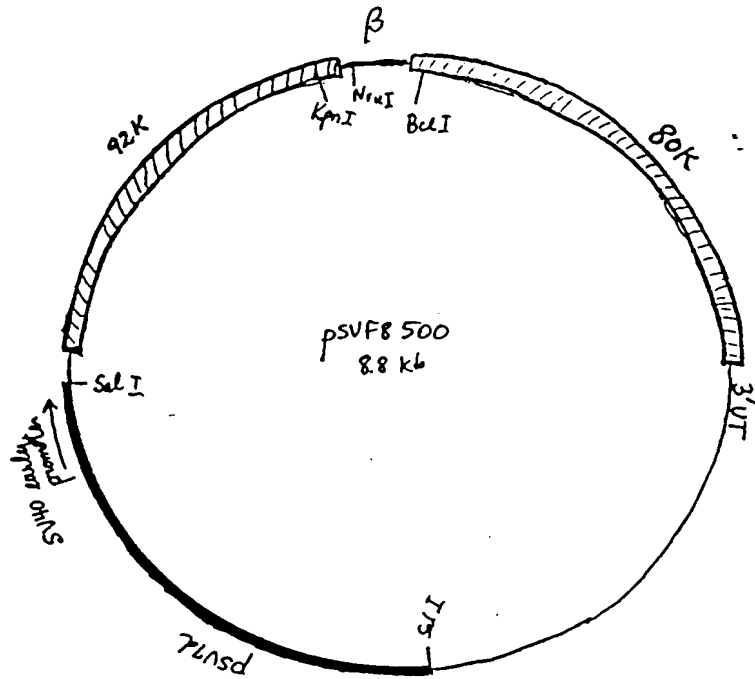
Seq ID No. 82 62 CGTACTCTTCAGTCT

Seq ID No. 83 GCATGAGAAGTCAGACTAG

76 BCL1,

begin 80k

Fig 40



Linkers for pSVF8-500B

end 92 19aa C terminal
to thrombin cleavage at 740

	SerArgHisProSerThrArgGlnLysGlnPheAspAlaThrProProValLeuLysArg	Seq ID No. 50
mutant	TCGCGACACCCTAGCACTAGGCAAAAGCAATTAAATGCCACCCACCAGTCCTGAAACGC	Seq ID No. 51
wild type	(TT) AGCGCTGTGGGATCGTGATCCGTTTTCGTTAAATTACGGTGGGGTGGTCATGACTTTGCC	(CT)
	NRU1	

Start 80K
HisGlnArgGluIleThrArg
CATCAACGGGAAATAACGCGT
CTAGTTGCCCTTTATTGCGCA

MLU1
9aa N terminal to 80K

Fig 41